

FIG. 1

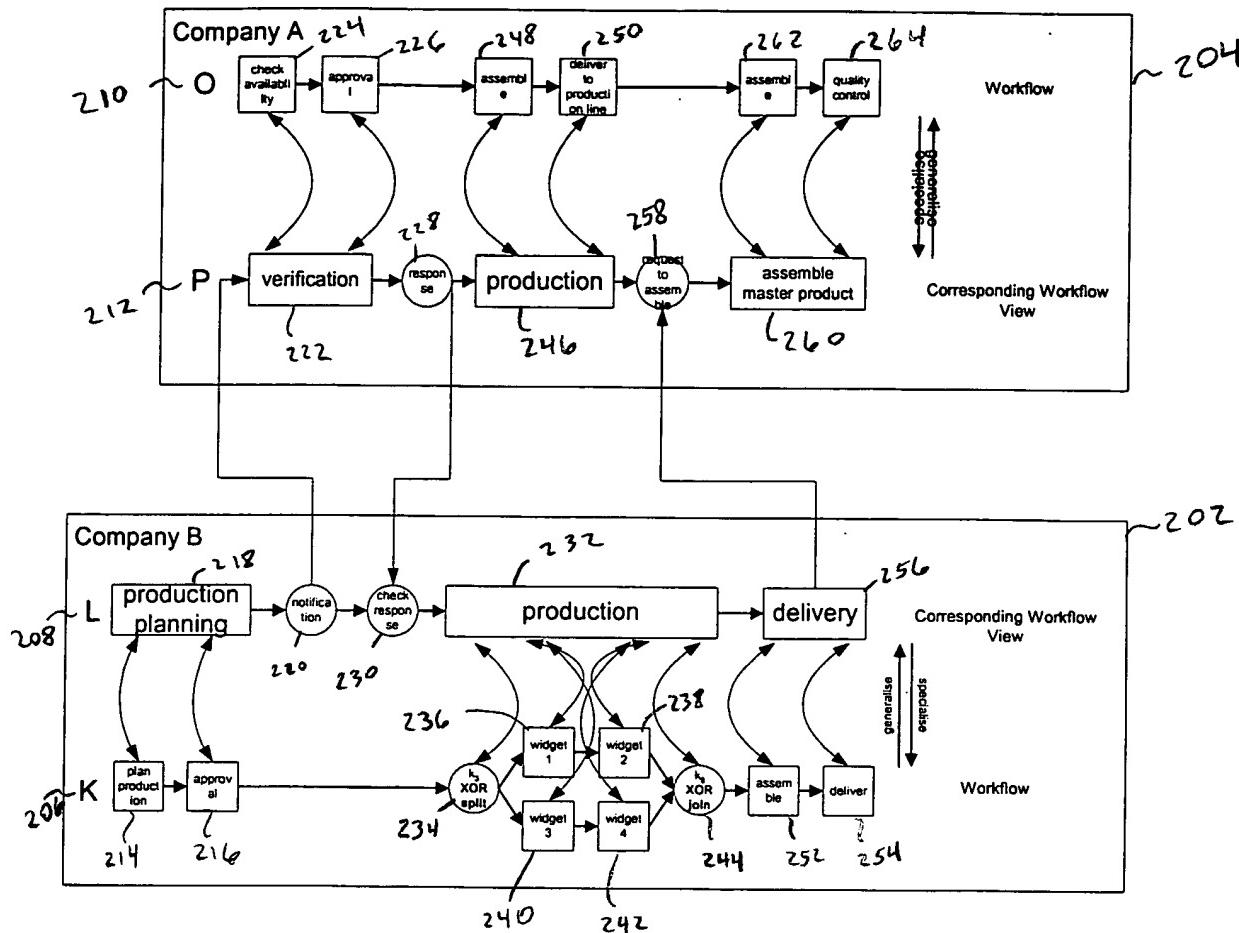


FIG. 2

# Applicant(s): Karsten Schulz, et al. TRANSFORMATIONS BETWEEN PRIVATE AND SHARED WORKFLOWS

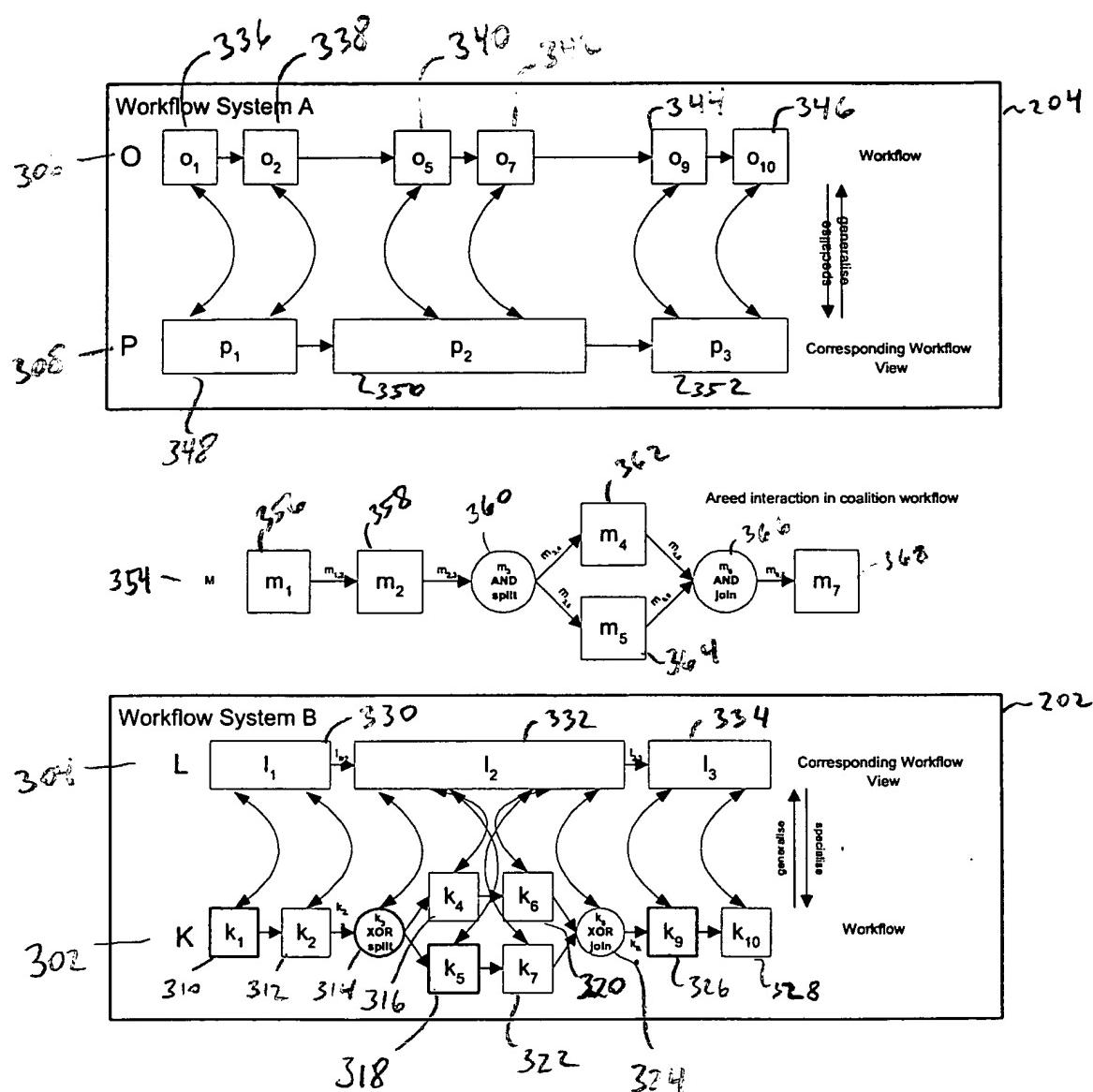
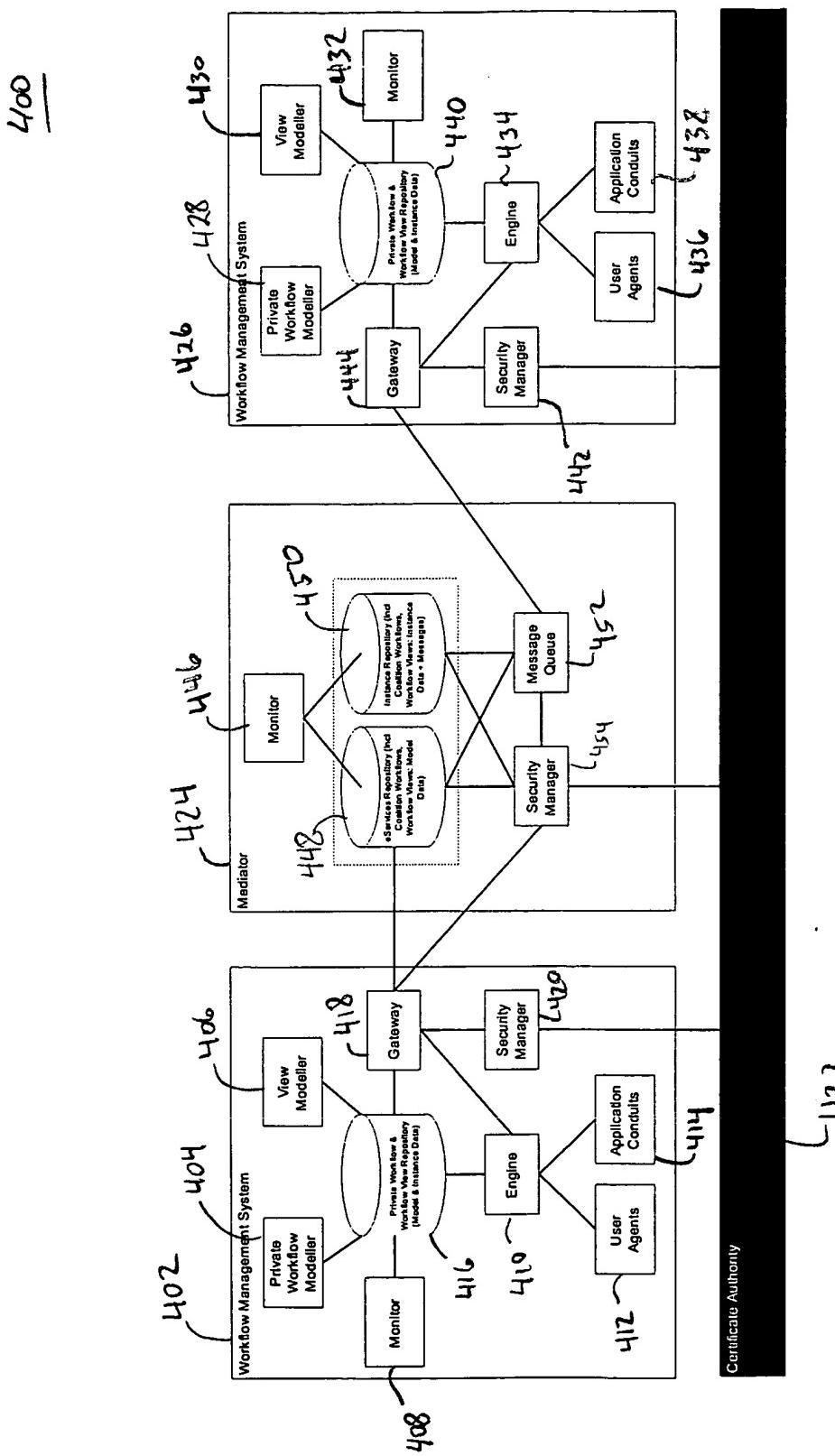


FIG. 3



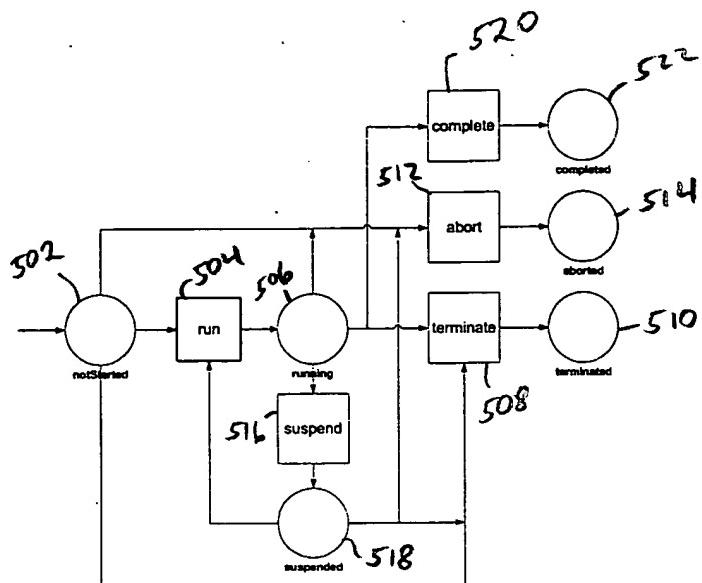


FIG. 5

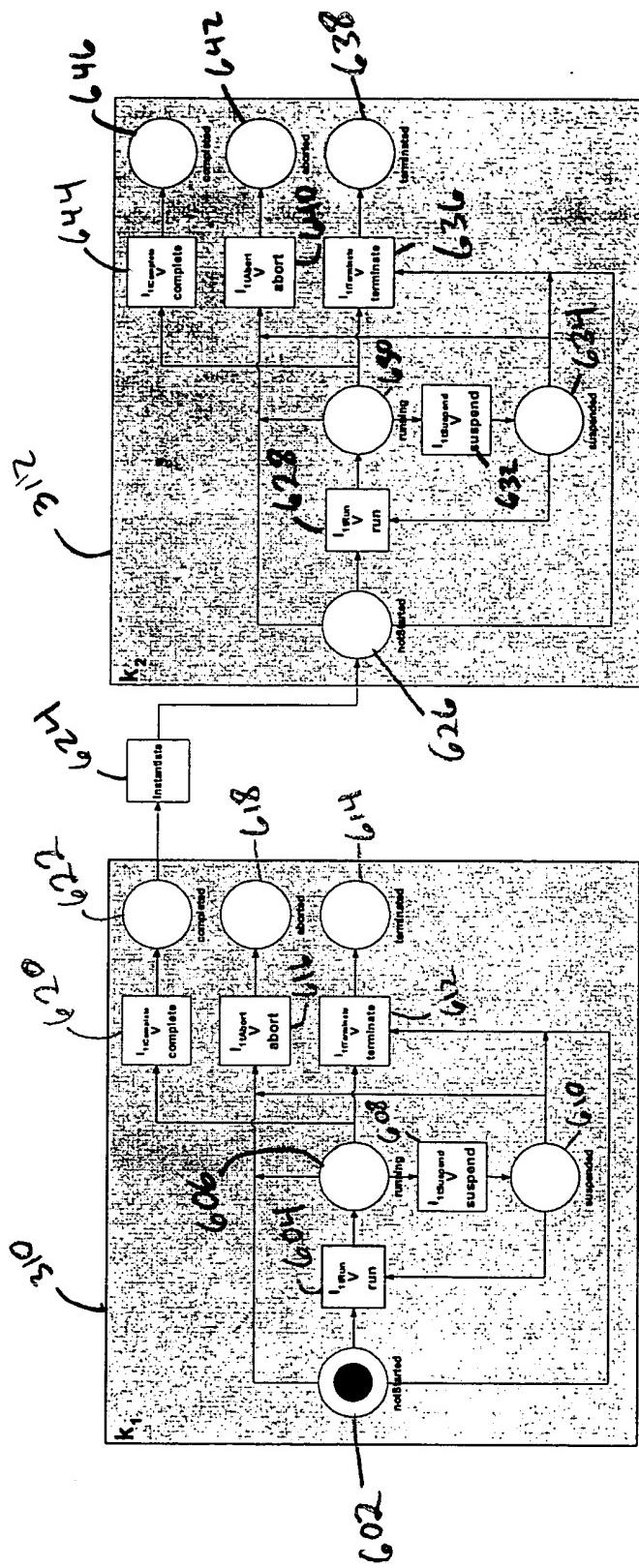
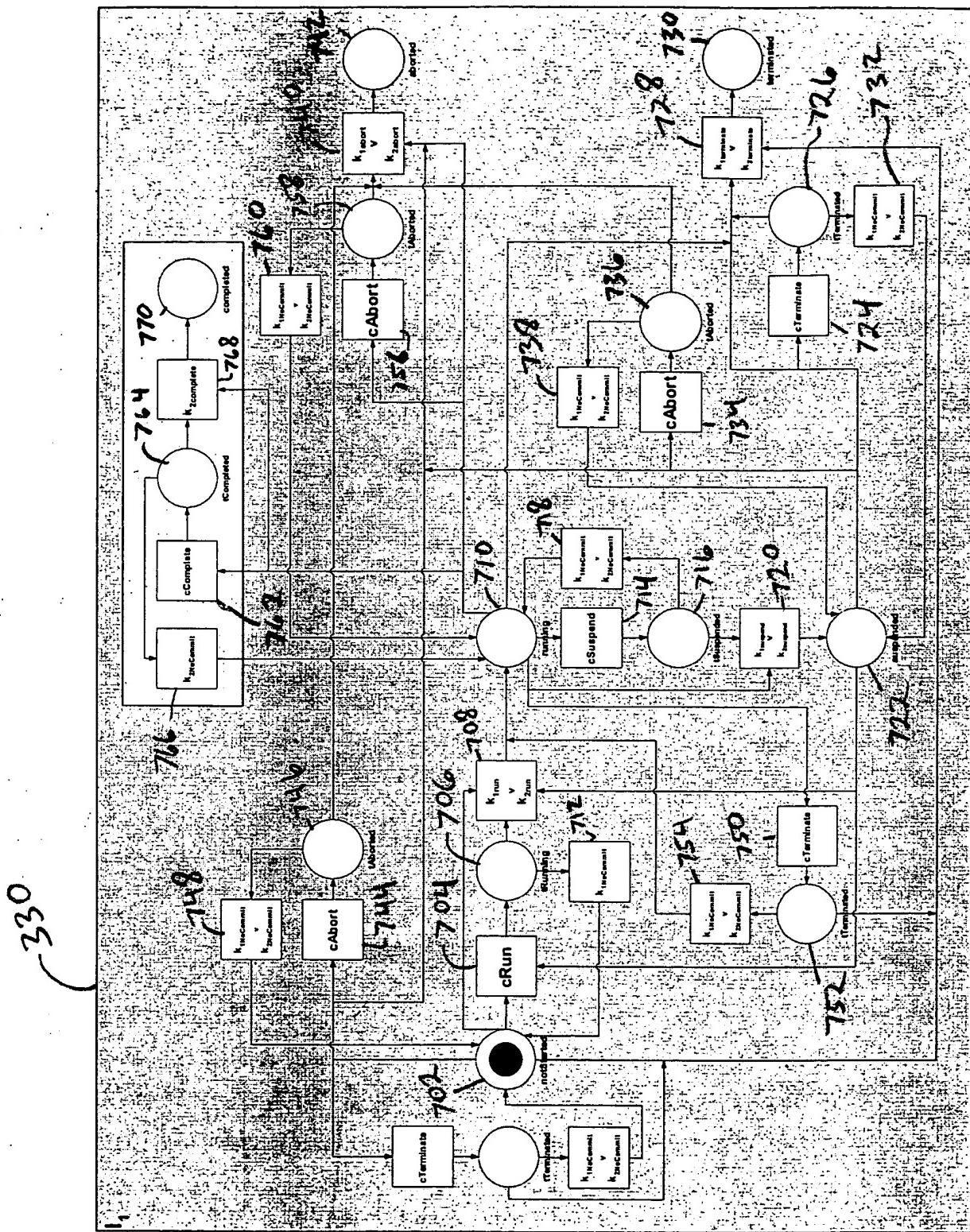


FIG. 6



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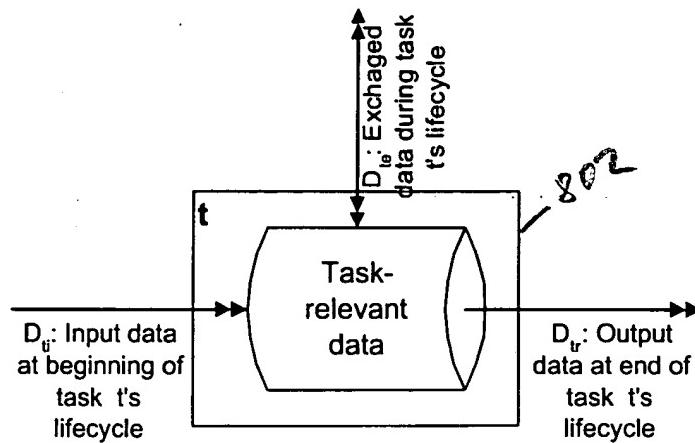


FIG. 8

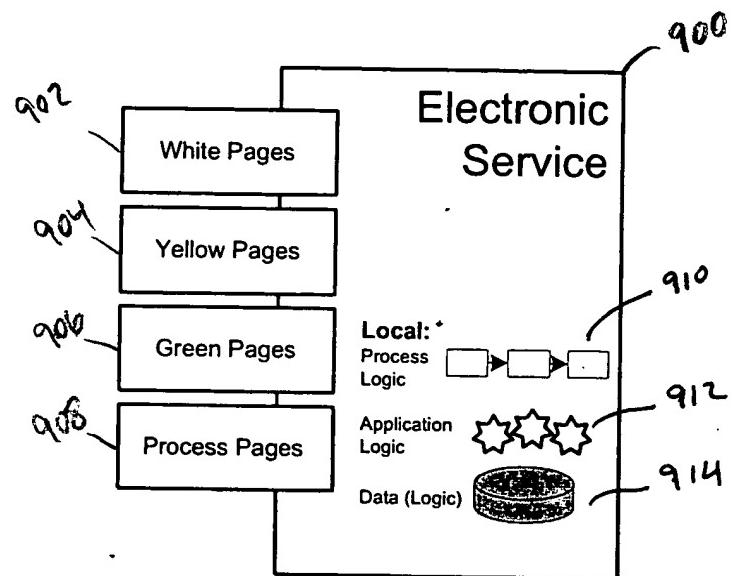


FIG. 9

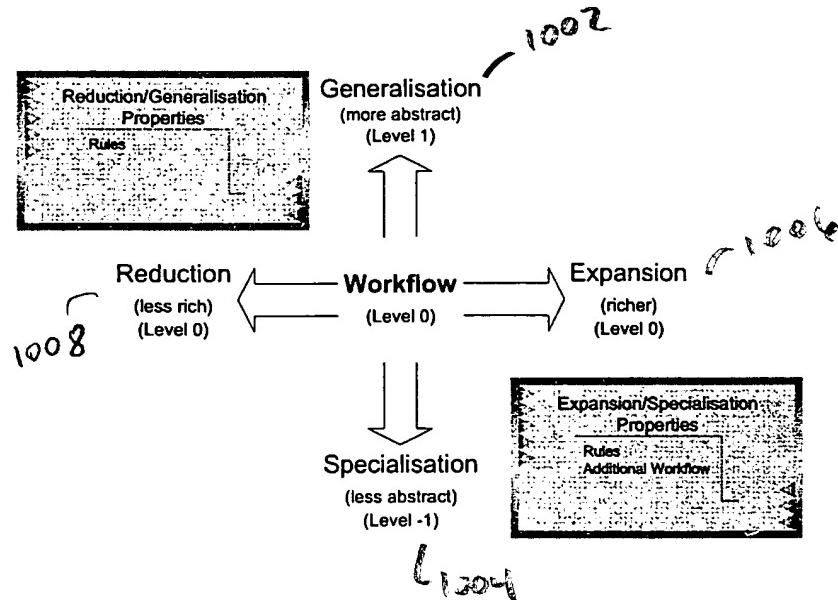


FIG. 10

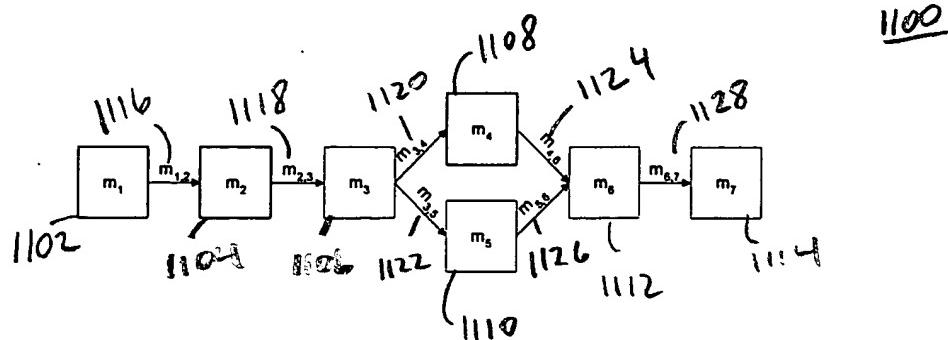


FIG. 11

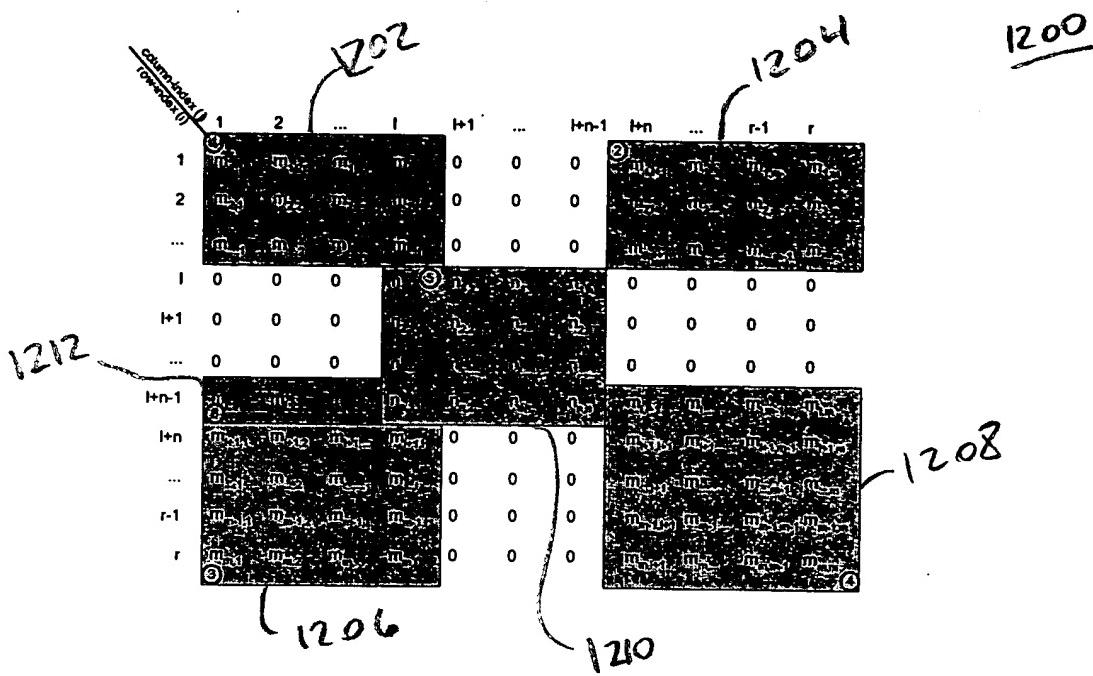


FIG. 12

1300

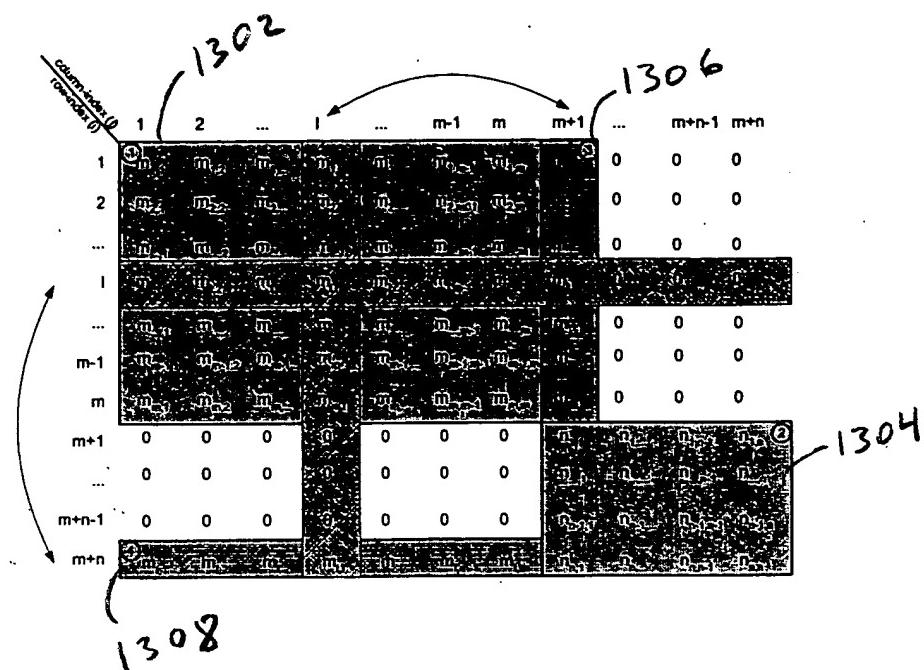


FIG. 13

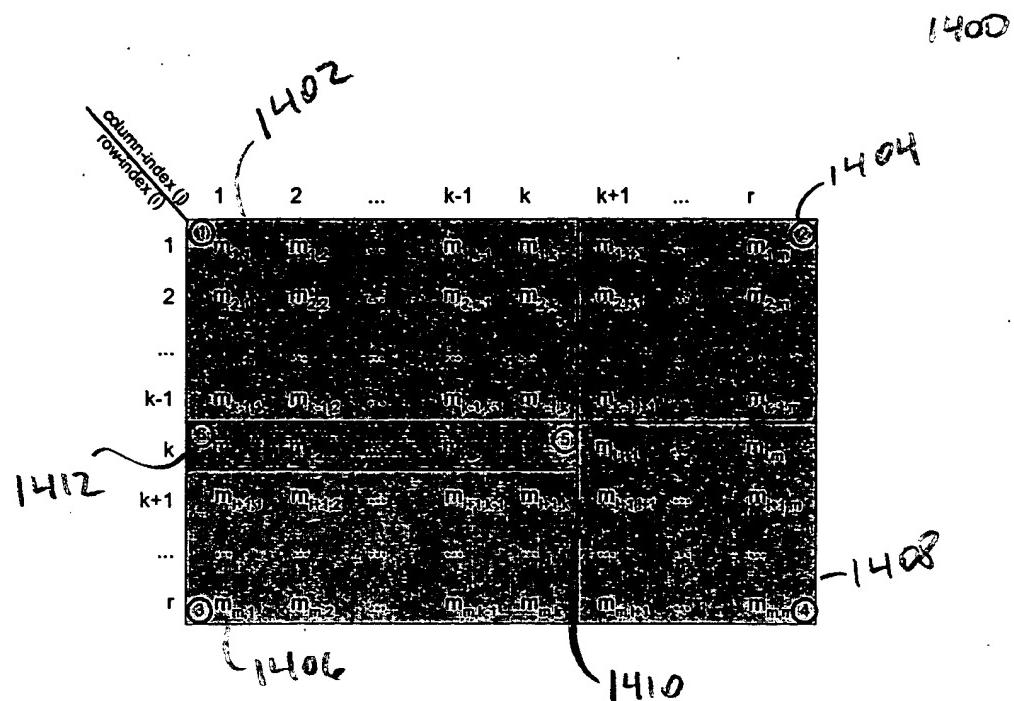


FIG. 14

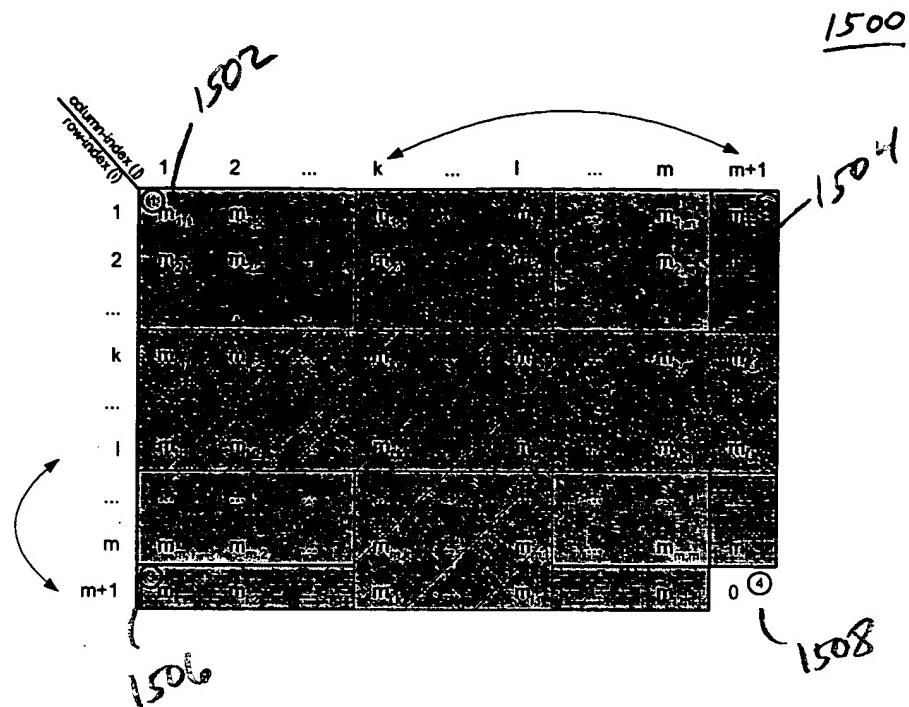


FIG. 15

Applicant(s): Karsten Schulz, et al.

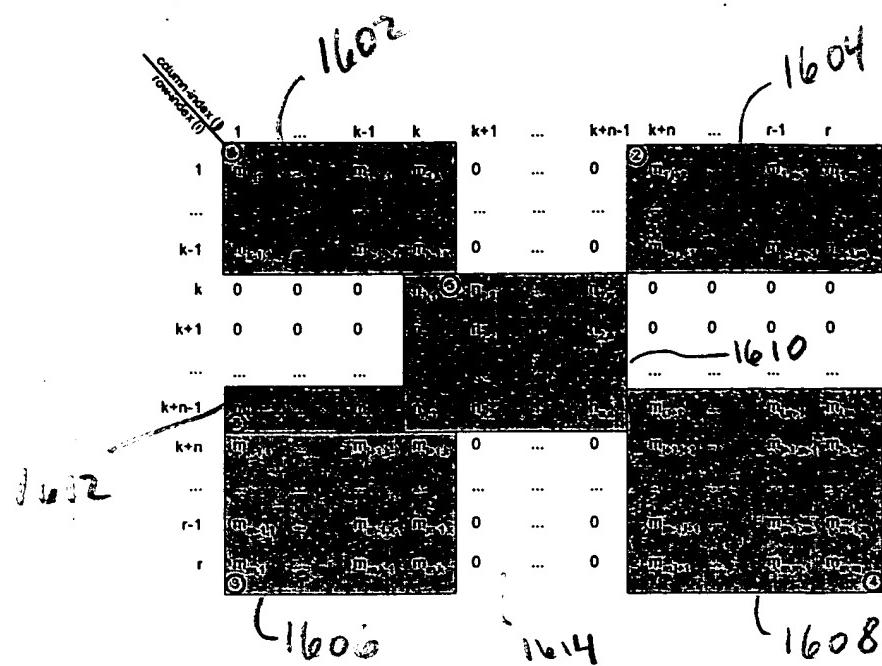
TRANSFORMATIONS BETWEEN PRIVATE AND SHARED  
WORKFLOWS

FIG. 16

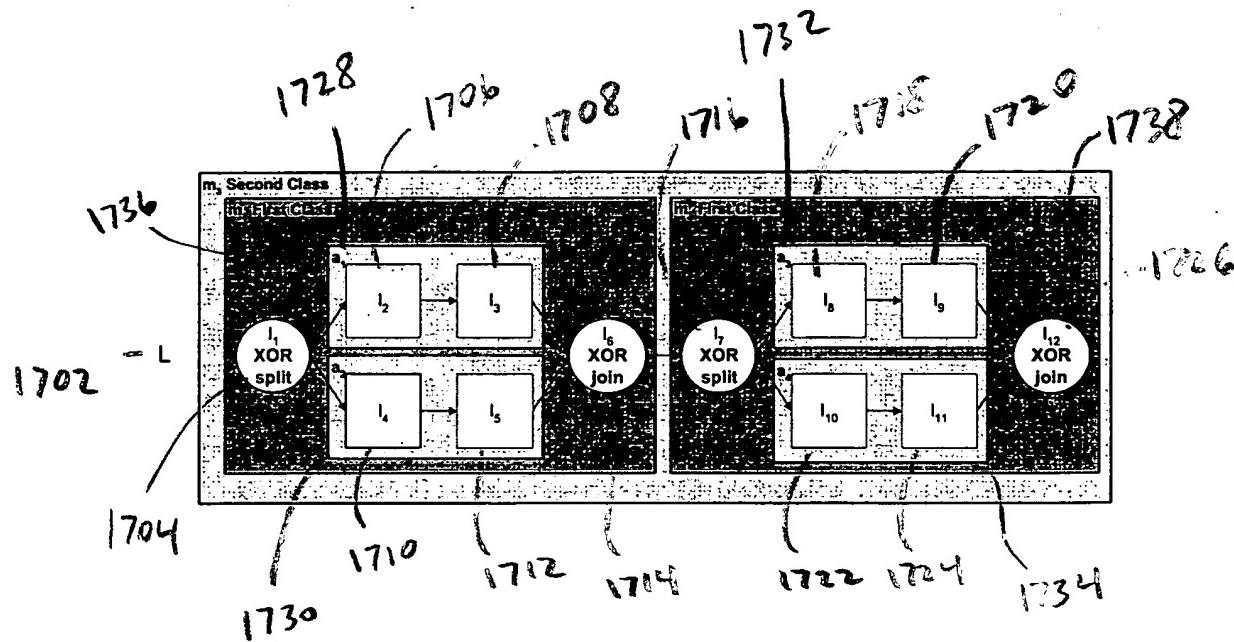


FIG. 17

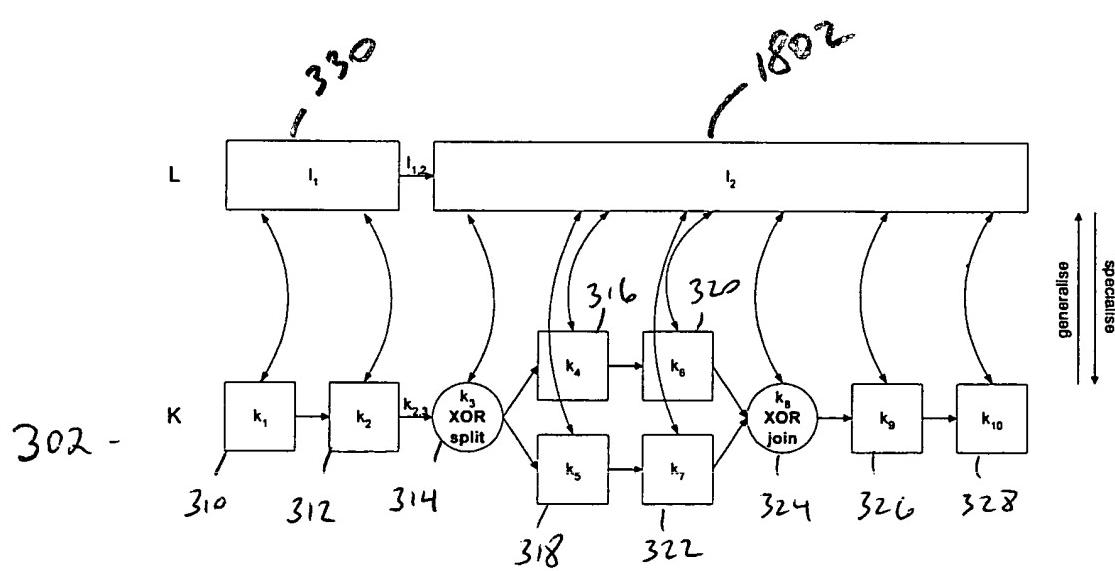


FIG. 18

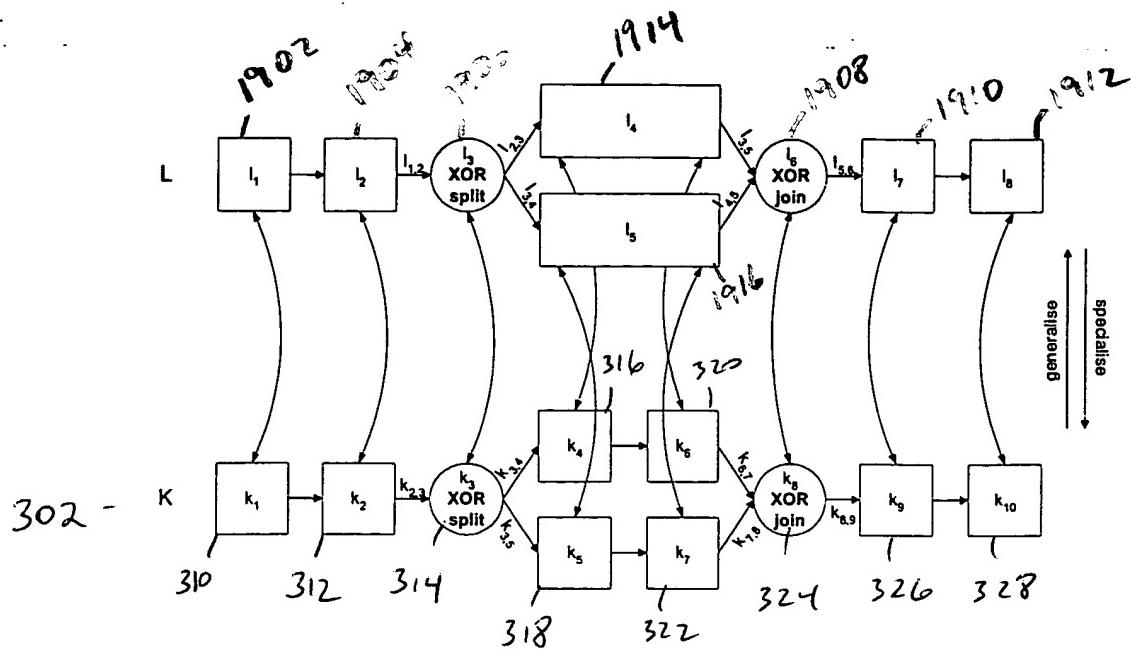


FIG. 19

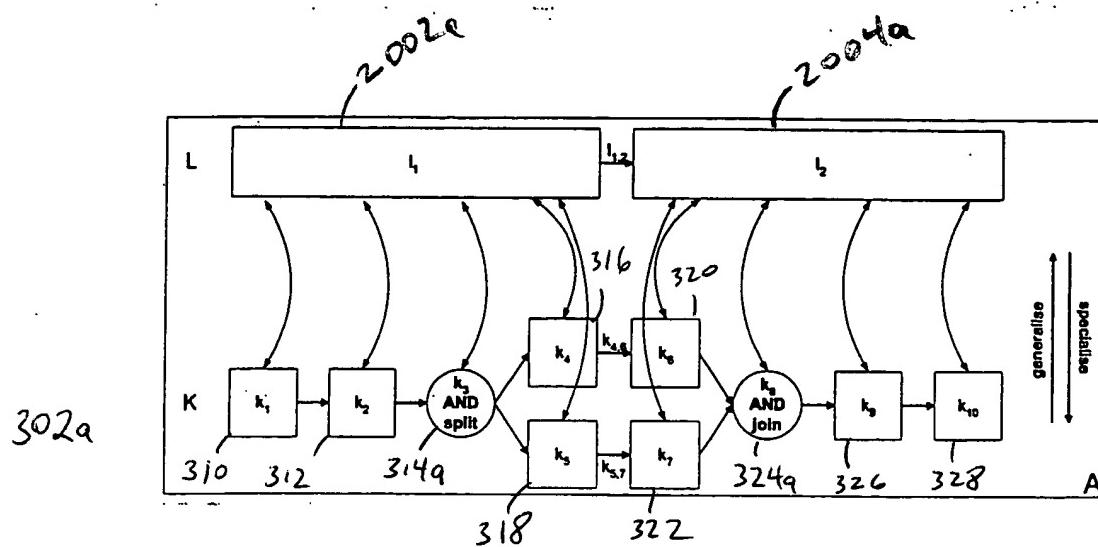


FIG. 20A

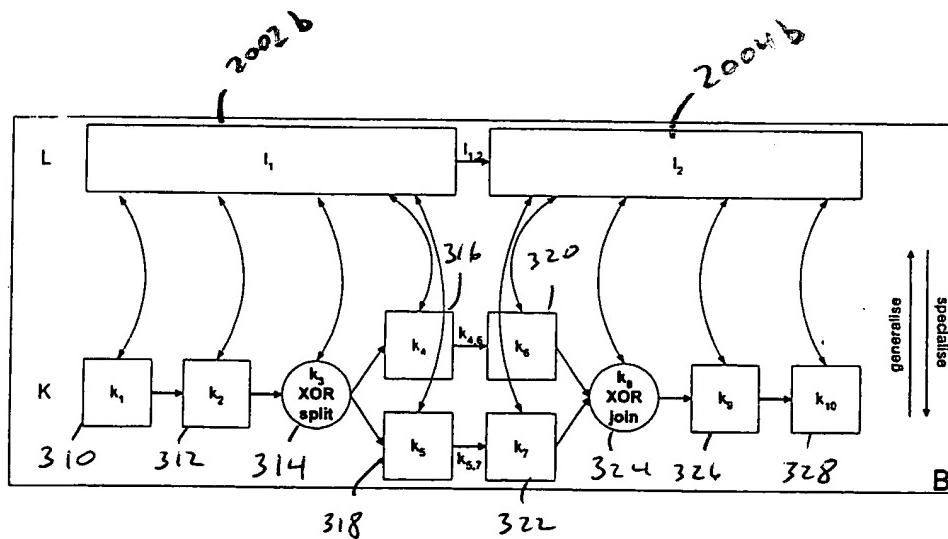


FIG. 20B

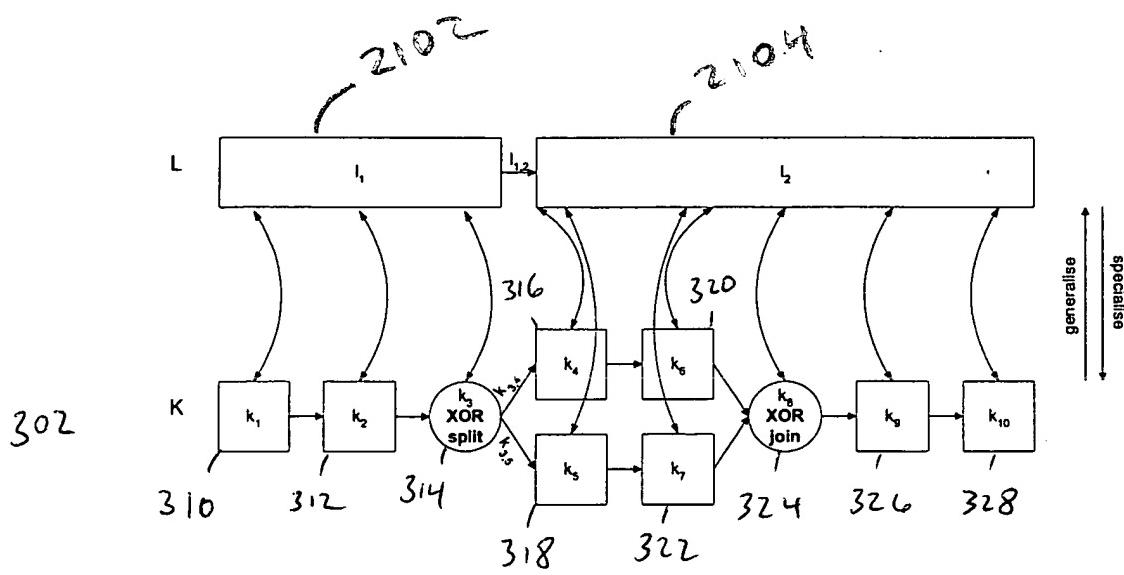


FIG. 21

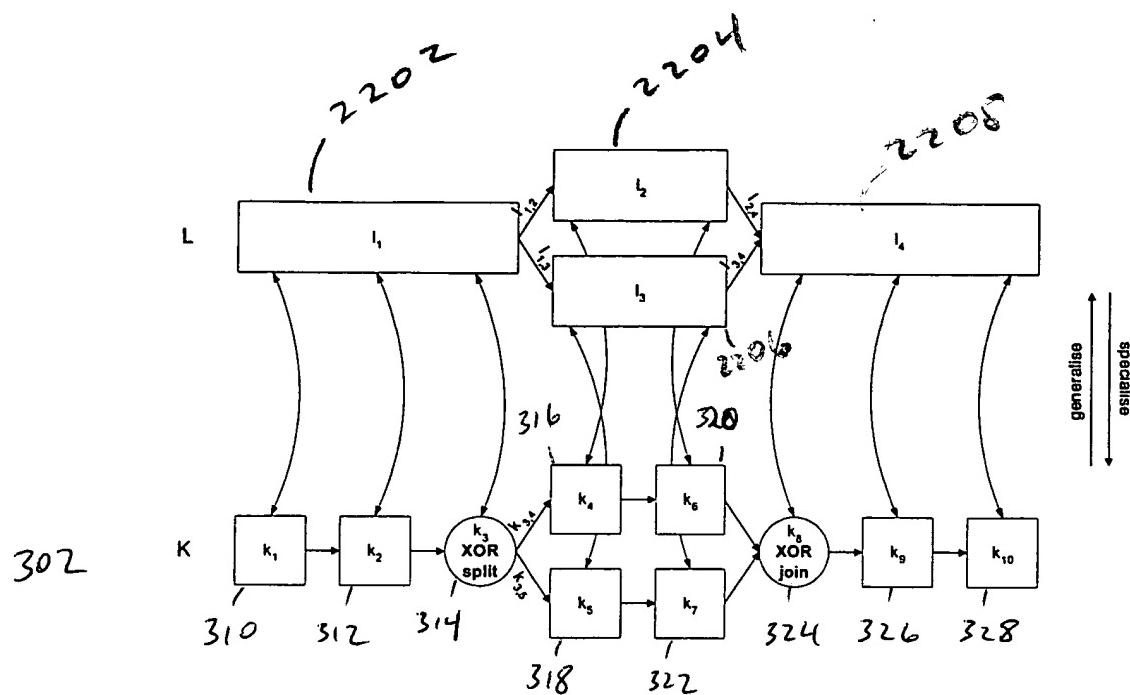


FIG. 22

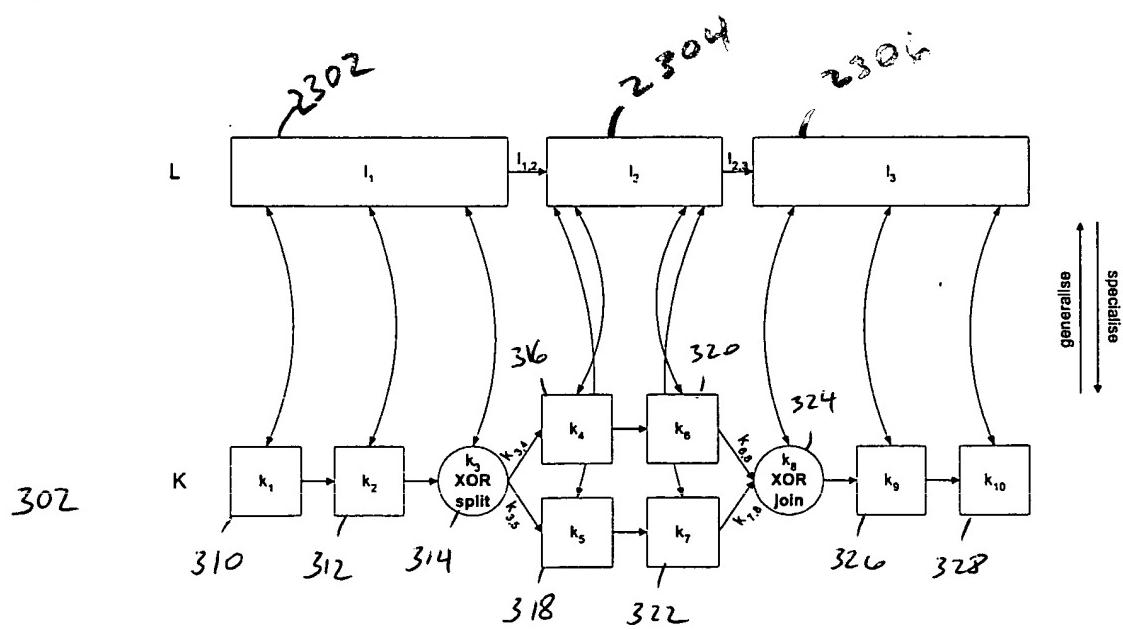


FIG. 23

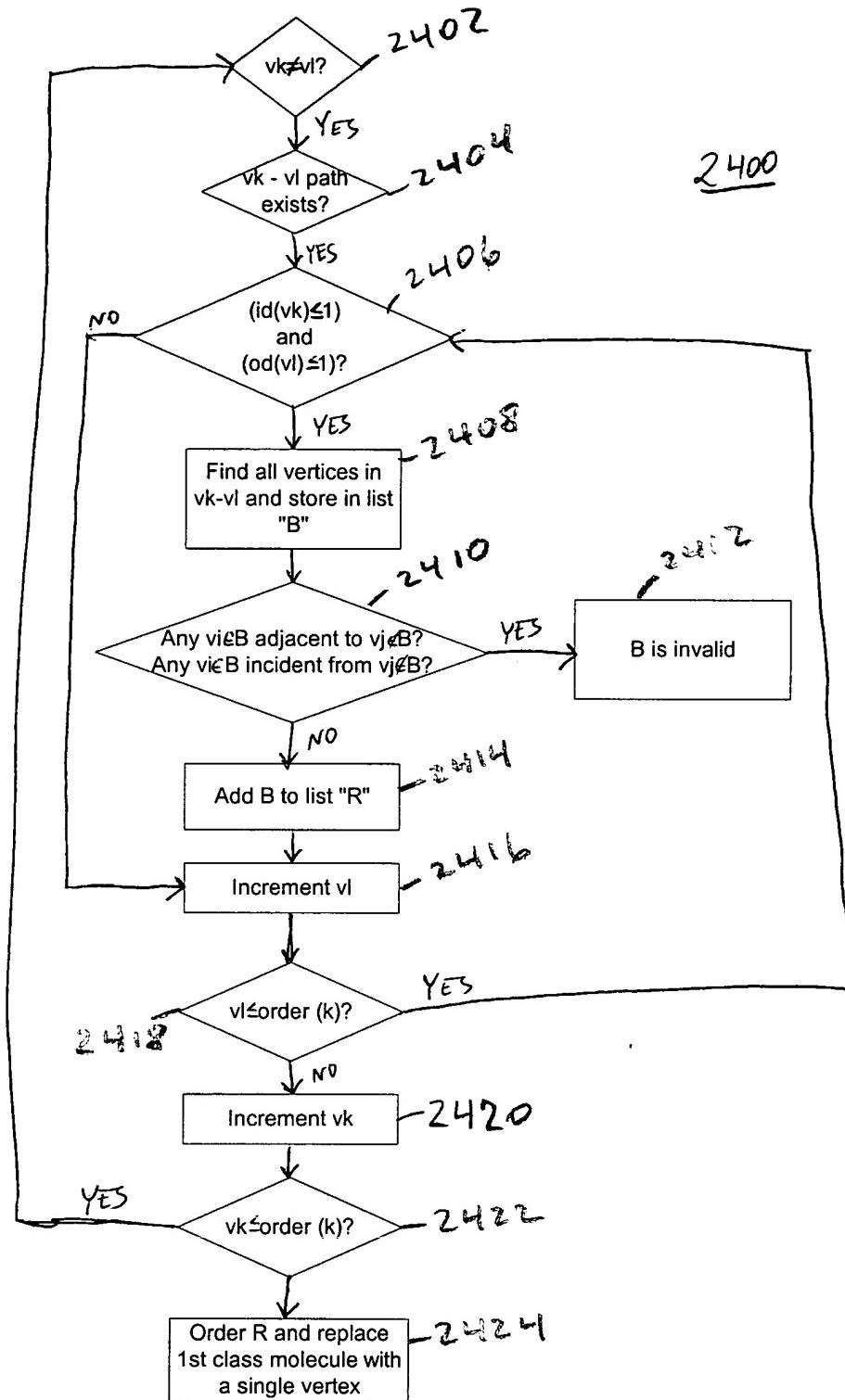


FIG. 24

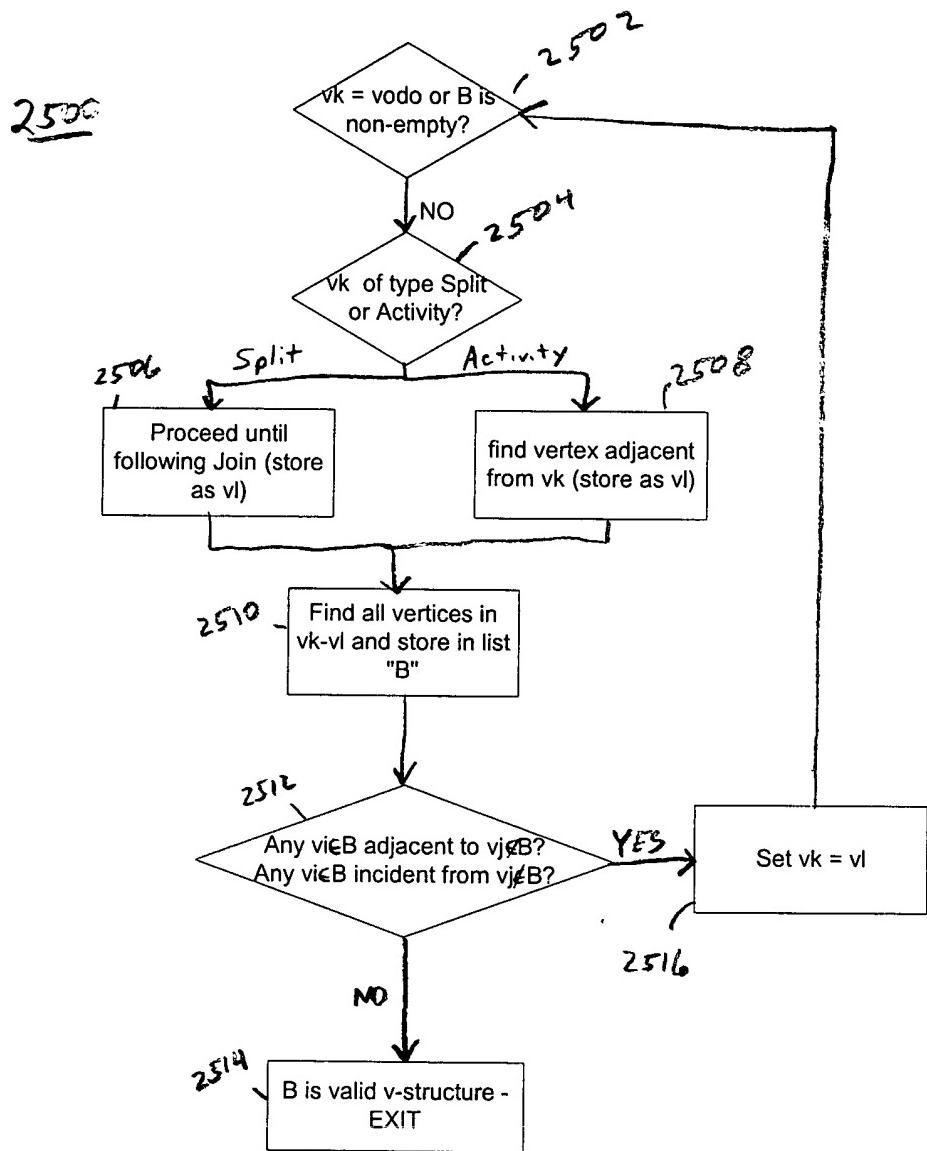


FIG. 25

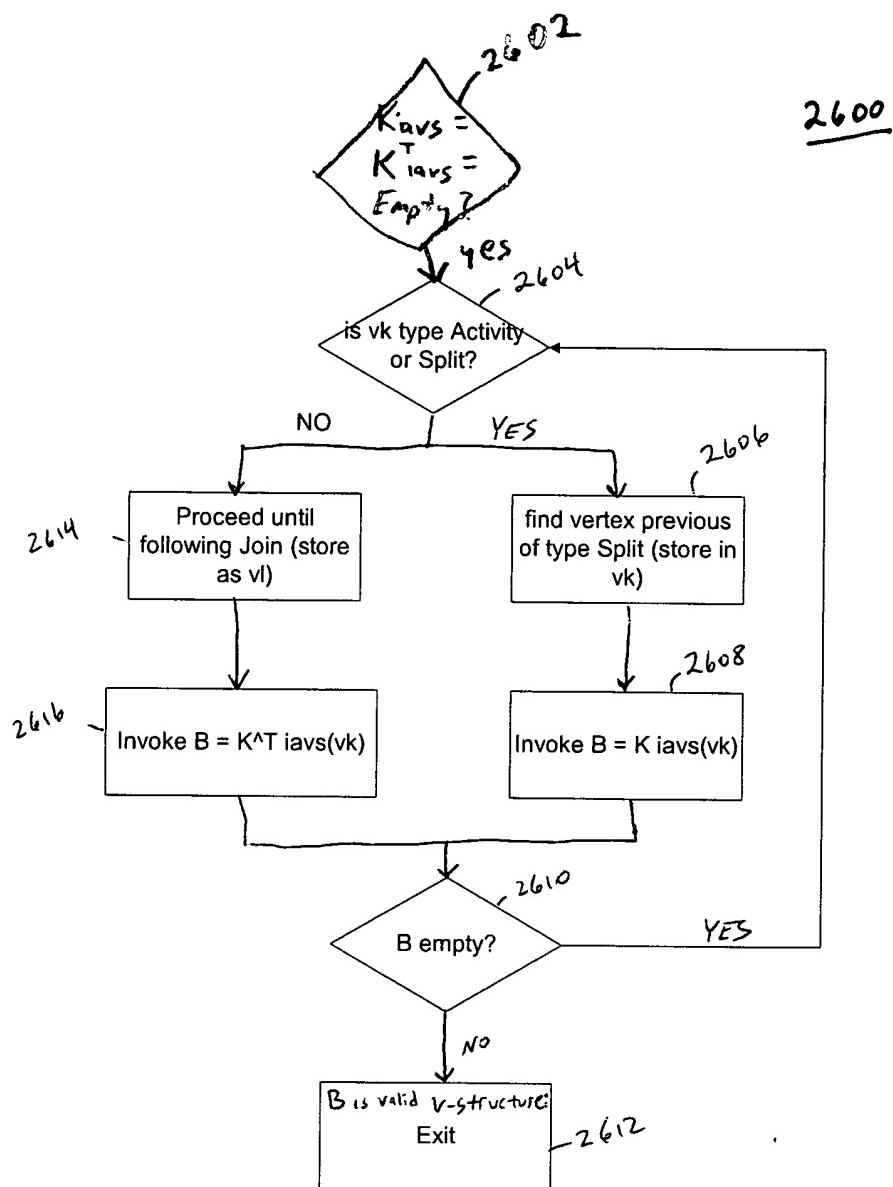


FIG. 26

# TRANSFORMATIONS BETWEEN PRIVATE AND SHARED WORKFLOWS

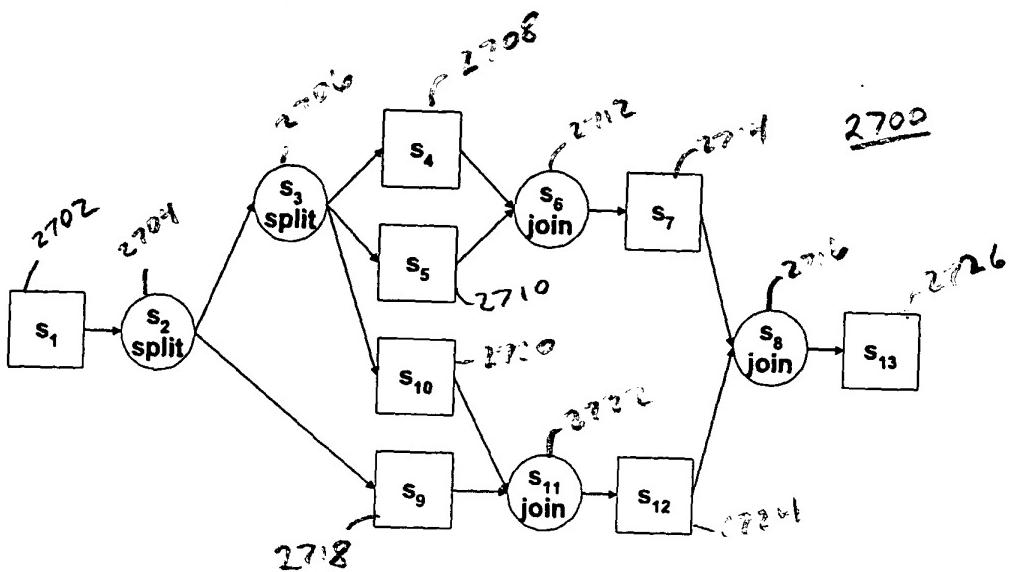


FIG. 27A

$v_k$	$S_{iavse}(v_k)$
$s_1$	$\{s_1, s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_2$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_3$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_4$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_5$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_6$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_7$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_8$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_9$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_{10}$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_{11}$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_{12}$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}\}$
$s_{13}$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{11}, s_{12}, s_{13}\}$

FIG. 27B

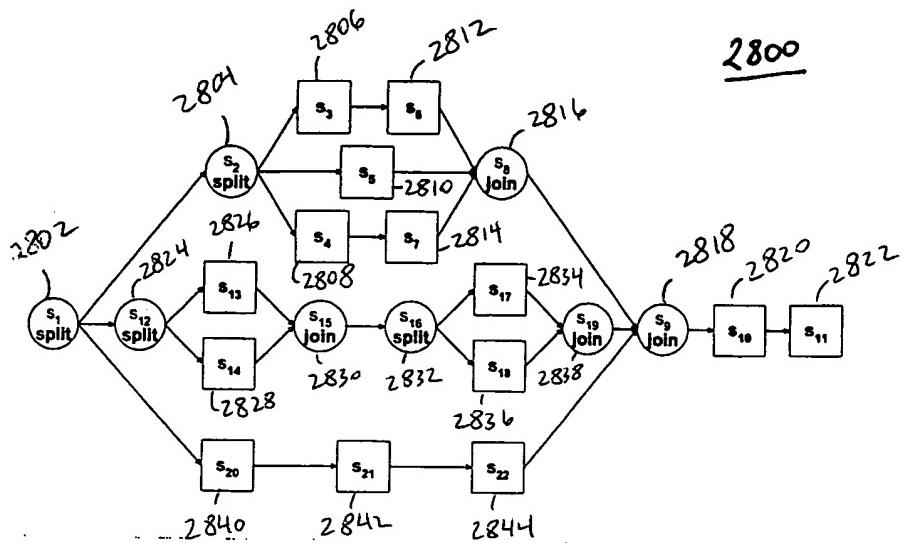


FIG. 28A

$v_k$	$S_{iavse}(v_k)$
$s_1$	$\{s_1, s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{12}, s_{13}, s_{14}, s_{15}, s_{16}, s_{17}, s_{18}, s_{19}, s_{20}, s_{21}, s_{22}\}$
$s_2$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8\}$
$s_3$	$\{s_3, s_6\}$
$s_4$	$\{s_4, s_7\}$
$s_5$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8\}$
$s_6$	$\{s_3, s_6\}$
$s_7$	$\{s_4, s_7\}$
$s_8$	$\{s_2, s_3, s_4, s_5, s_6, s_7, s_8\}$
$s_9$	$\{s_1, s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{12}, s_{13}, s_{14}, s_{15}, s_{16}, s_{17}, s_{18}, s_{19}, s_{20}, s_{21}, s_{22}\}$
$s_{10}$	$\{s_1, s_2, s_3, s_4, s_5, s_6, s_7, s_8, s_9, s_{10}, s_{12}, s_{13}, s_{14}, s_{15}, s_{16}, s_{17}, s_{18}, s_{19}, s_{20}, s_{21}, s_{22}\}, \{s_{10}, s_{11}\}$
$s_{11}$	$\{s_{10}, s_{11}\}$
$s_{12}$	$\{s_{12}, s_{13}, s_{14}, s_{15}\}$
$s_{13}$	$\{s_{12}, s_{13}, s_{14}, s_{15}\}$
$s_{14}$	$\{s_{12}, s_{13}, s_{14}, s_{15}\}$
$s_{15}$	$\{s_{12}, s_{13}, s_{14}, s_{15}\}$
$s_{16}$	$\{s_{16}, s_{17}, s_{18}, s_{19}\}$
$s_{17}$	$\{s_{16}, s_{17}, s_{18}, s_{19}\}$
$s_{18}$	$\{s_{16}, s_{17}, s_{18}, s_{19}\}$
$s_{19}$	$\{s_{16}, s_{17}, s_{18}, s_{19}\}$
$s_{20}$	$\{s_{20}, s_{21}\}$
$s_{21}$	$\{s_{20}, s_{21}\}, \{s_{21}, s_{22}\}$
$s_{22}$	$\{s_{21}, s_{22}\}$

FIG. 28B

2900

800kT

2004

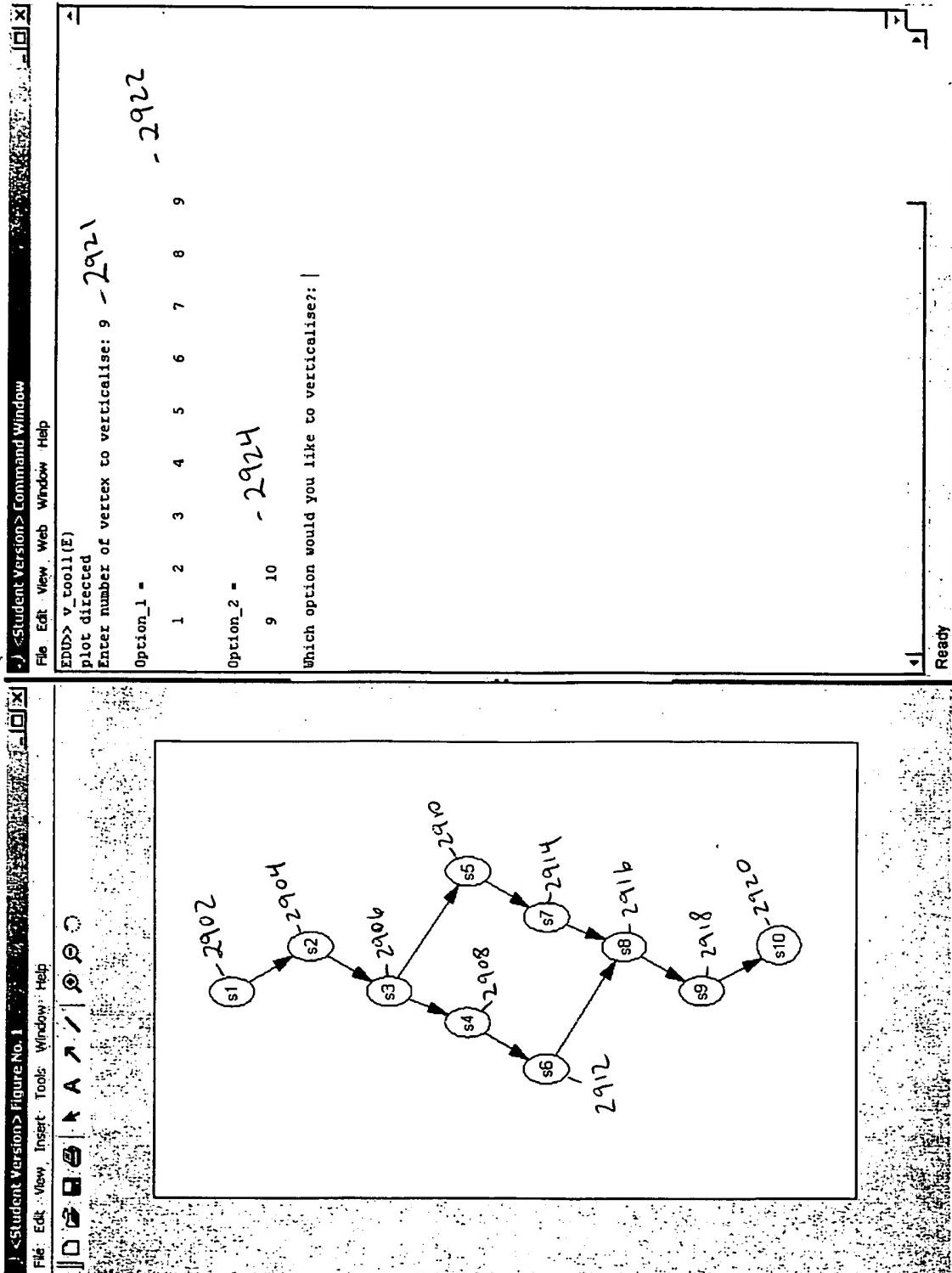


FIG. 29

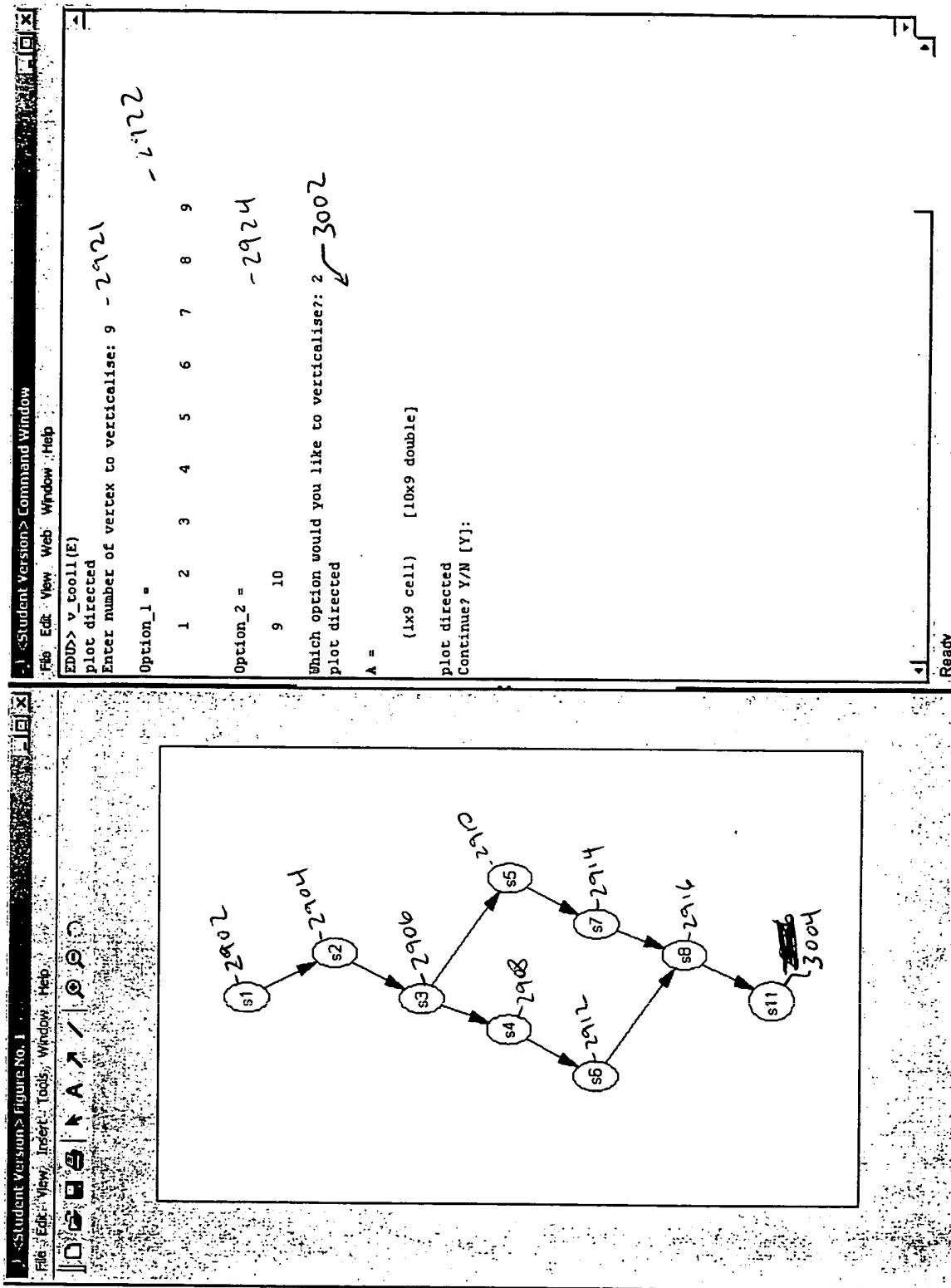
2000

FIG. 30

J < Student Version > Figure No. 1

File Edit View Insert Tools Window Help

EDD>> v\_2001(E)

plot directed

Enter number of vertex to verticalise: 9 - 2921

Option\_1 =

1	2	3	4	5	6	7	8	9	-2922
---	---	---	---	---	---	---	---	---	-------

option\_2 =

9	10
---	----

Which option would you like to verticalise?: 2

plot directed

A =

{1x9 cell}	[10x9 double]
------------	---------------

plot directed

Continue? Y/N [Y]: Y

Enter number of vertex to verticalise: 3 - 3102

a =

Option\_1 unavailable - 3104

option\_2 =

3	4	5	6	7	8	-3106
---	---	---	---	---	---	-------

Which option would you like to verticalise?: 1

Ready

FIG. 31

3200

1 <Student Version> Command Window

File Edit View Web Window Help

Option\_2 =

9 10 -2924

Which option would you like to verticalise?: 2

Pilot directed

A =

{1x9 cell} [10x9 double]

Pilot directed

Continue? Y/N [Y]:

Enter number of vertex to verticalise: 3 -3102

a =

option\_1 unavailable -3104

option\_2 =

3 4 5 6 7 8 -3106

Which option would you like to verticalise?: 2

Pilot directed

A =

{1x4 cell} [5x4 double]

Pilot directed

Continue? Y/N [Y]:

Enter number of vertex to verticalise: 12 -3202

option\_1 =

1 2 12 -3208

option\_2 =

11 12 -3210

Which option would you like to verticalise?: |

Ready

3200

s1 -2907

s2 -2904

s12 -3204

s11 -3004

```
graph TD; s1((s1)) --> s2((s2)); s2 --> s12((s12)); s12 --> s11((s11))
```

FIG. 32

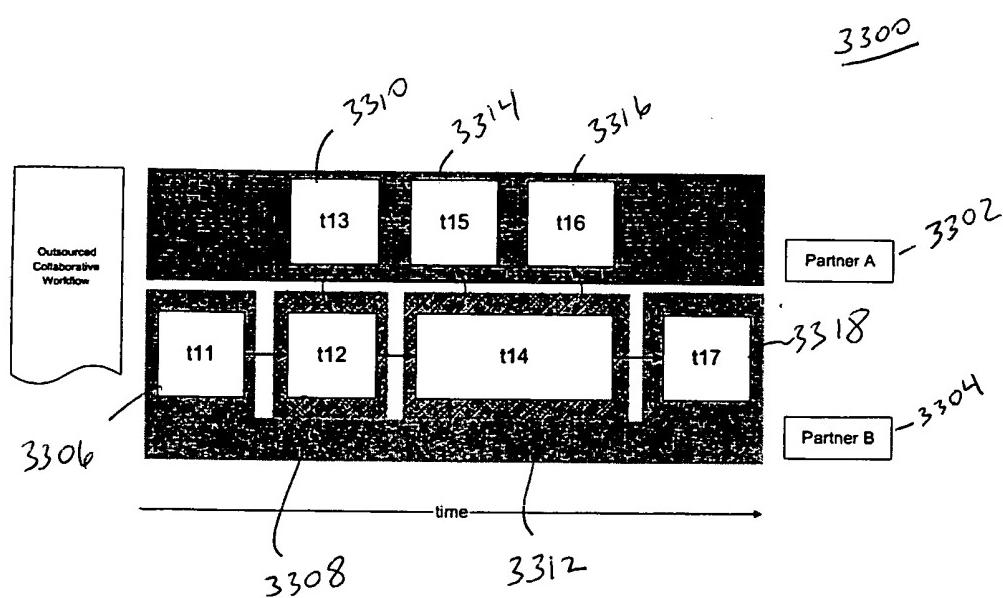


FIG. 33

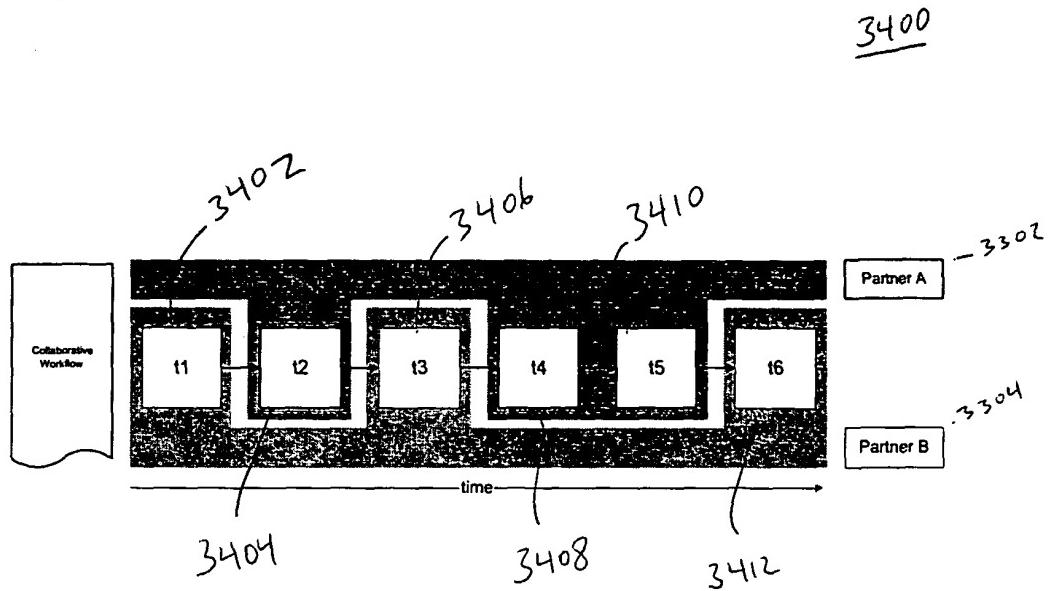


FIG. 34

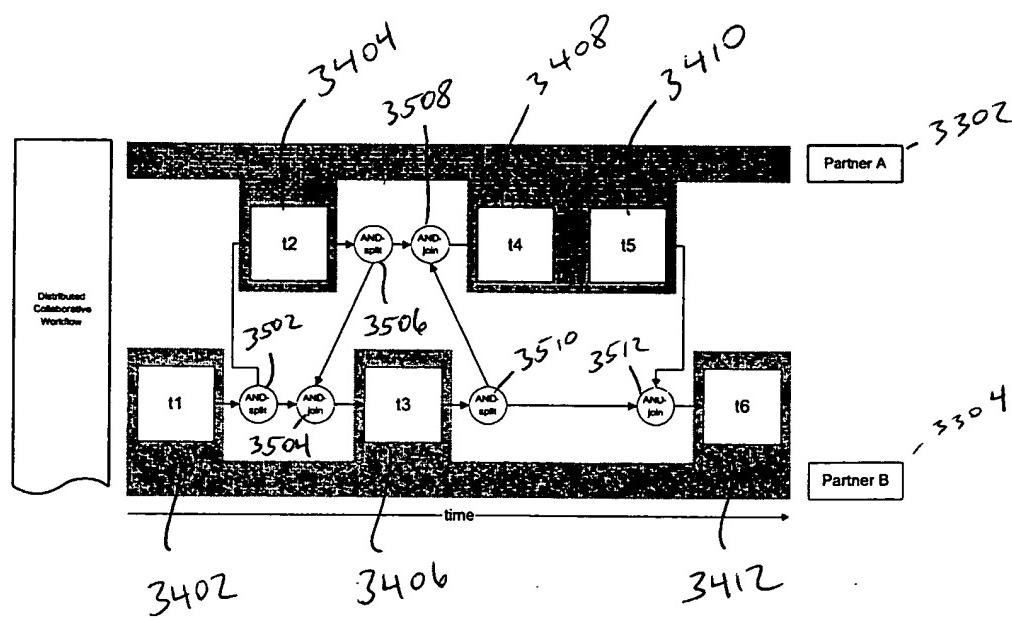


FIG. 35

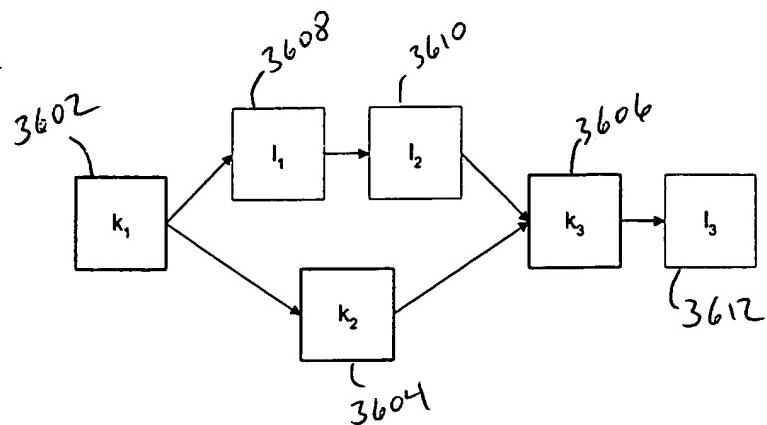


FIG. 36

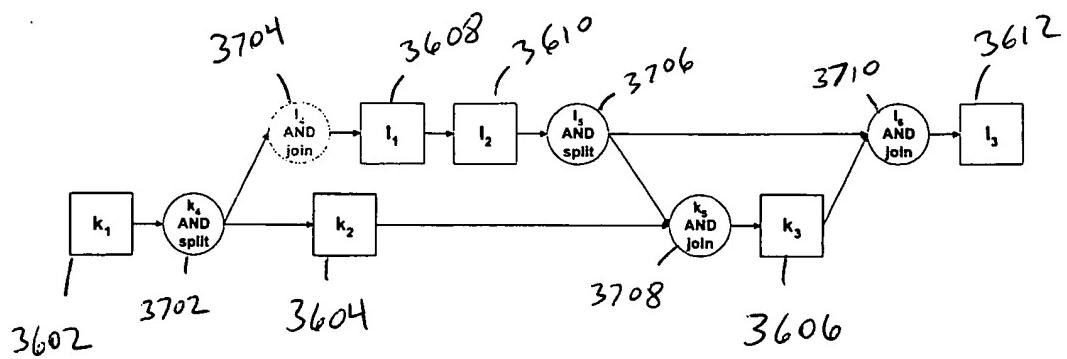


FIG. 37

3800

3802

	1	...	m	m+1	...	m+n
1	1	...		0	0	0
...	...	...		0	0	0
m		...		0	0	0
m+1	0	0	0		...	
...	0	0	0		...	
m+n	0	0	0		...	

- 3804

3804

FIG. 38

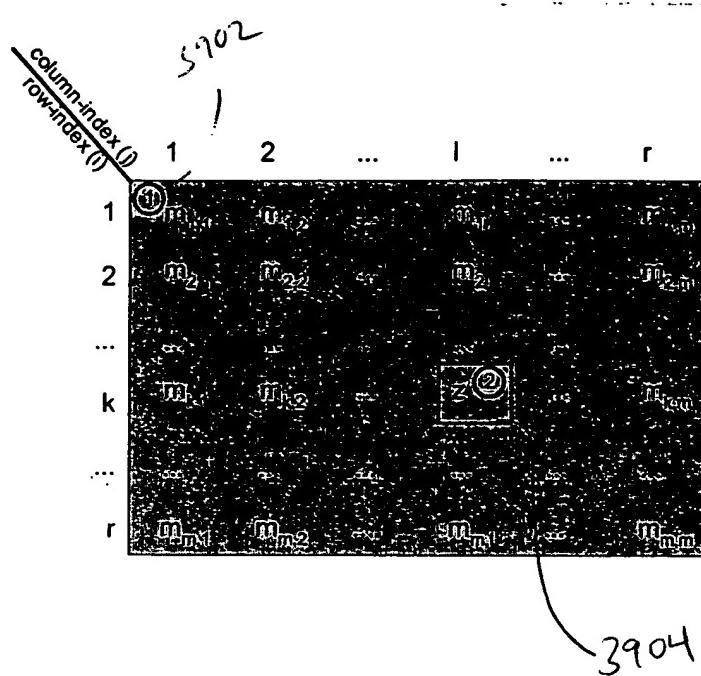
3900

FIG. 39

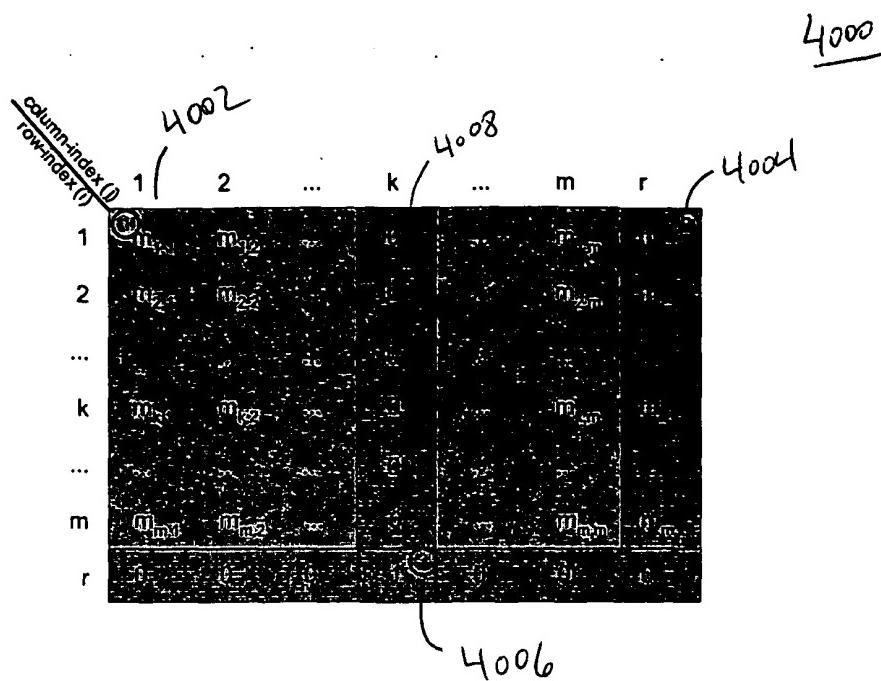


FIG. 40

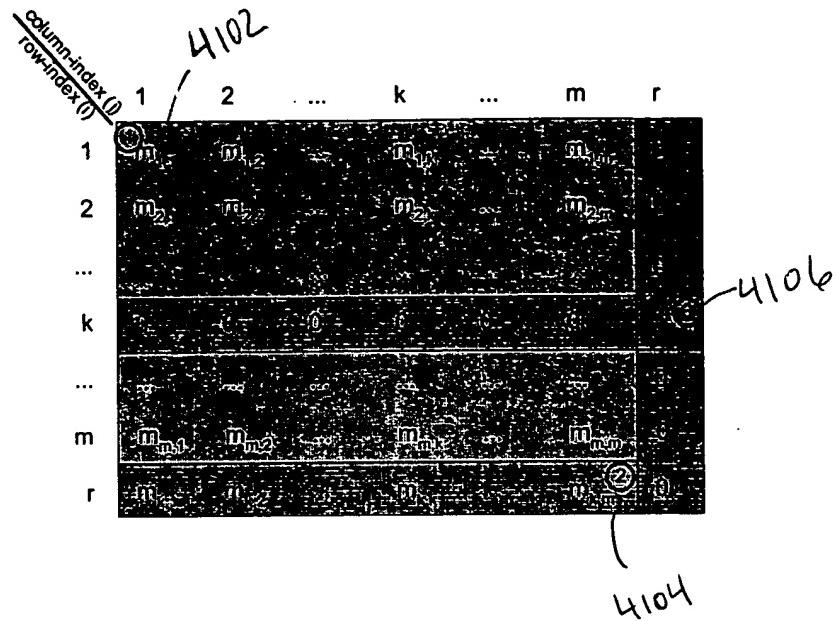


FIG. 41

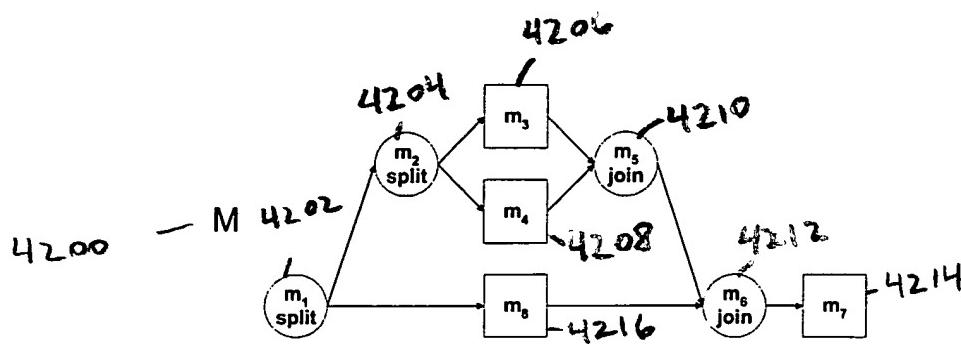


FIG. 42

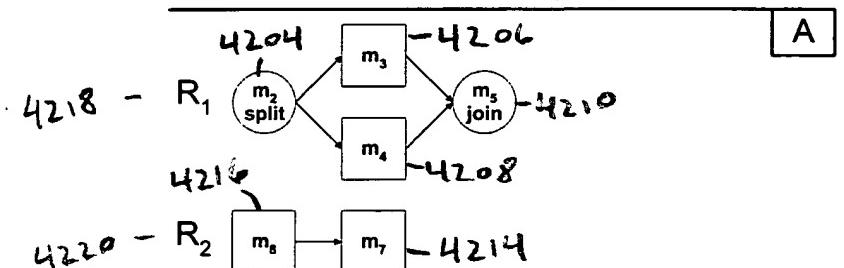


FIG. 42A

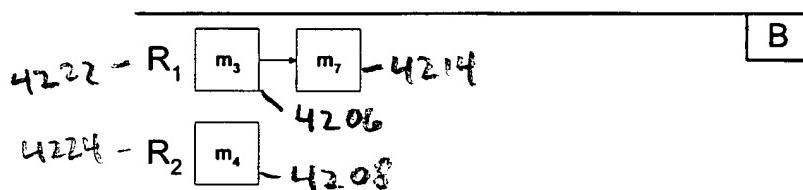


FIG. 42B

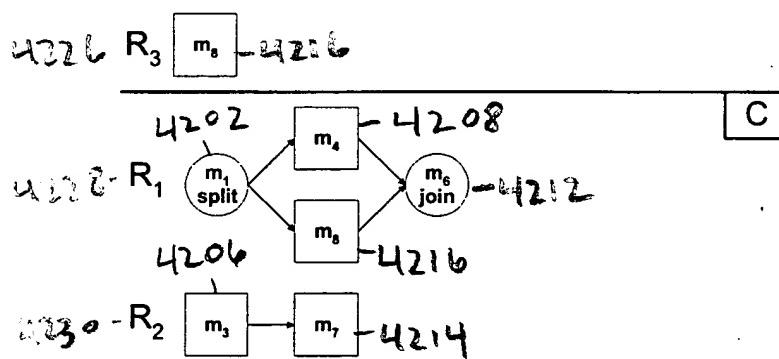


FIG. 42C

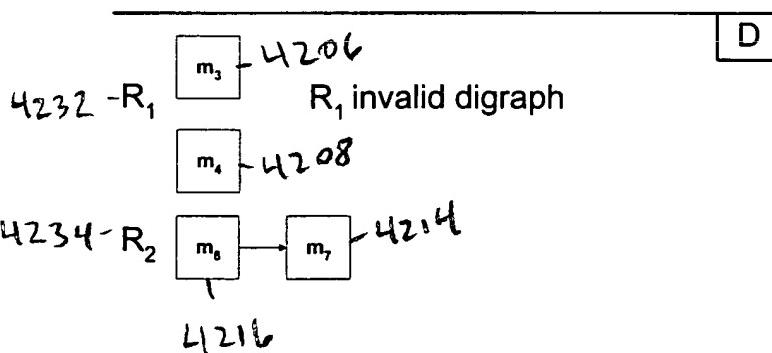


FIG. 42D

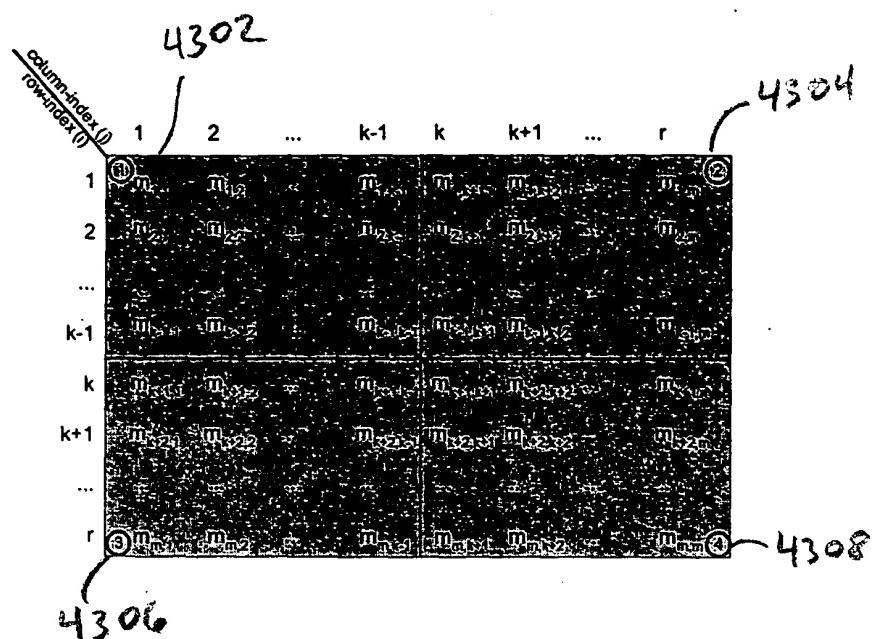
4302

FIG. 43

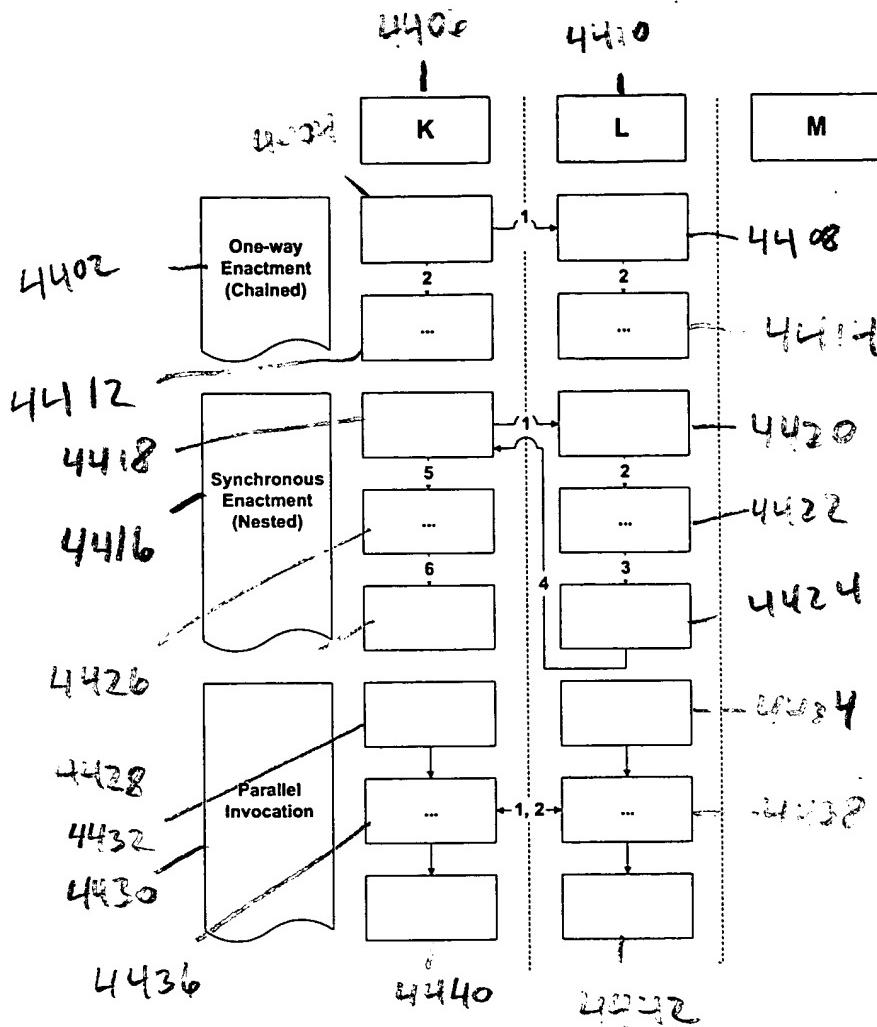


FIG. 44

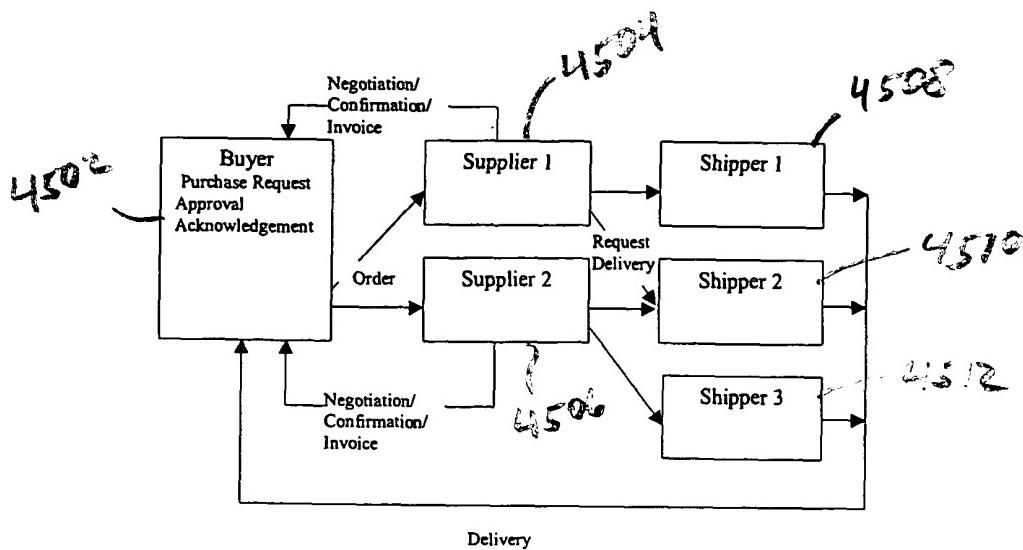


FIG. 45

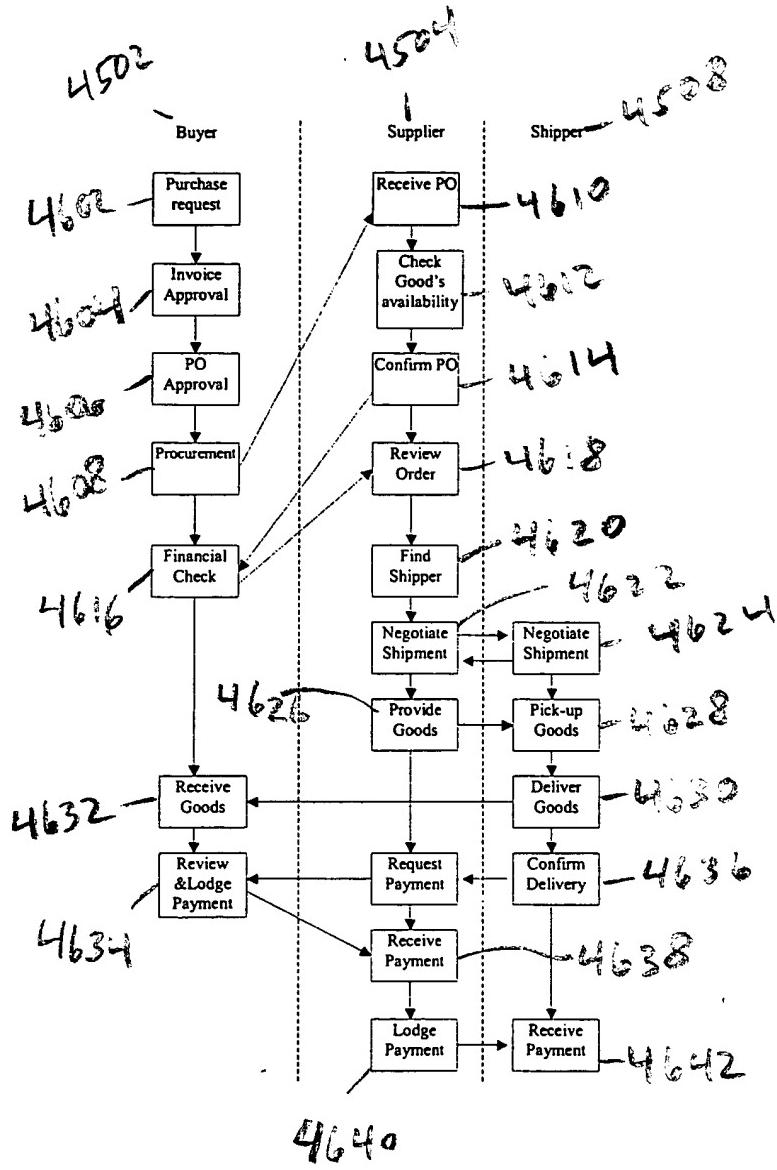


FIG. 46

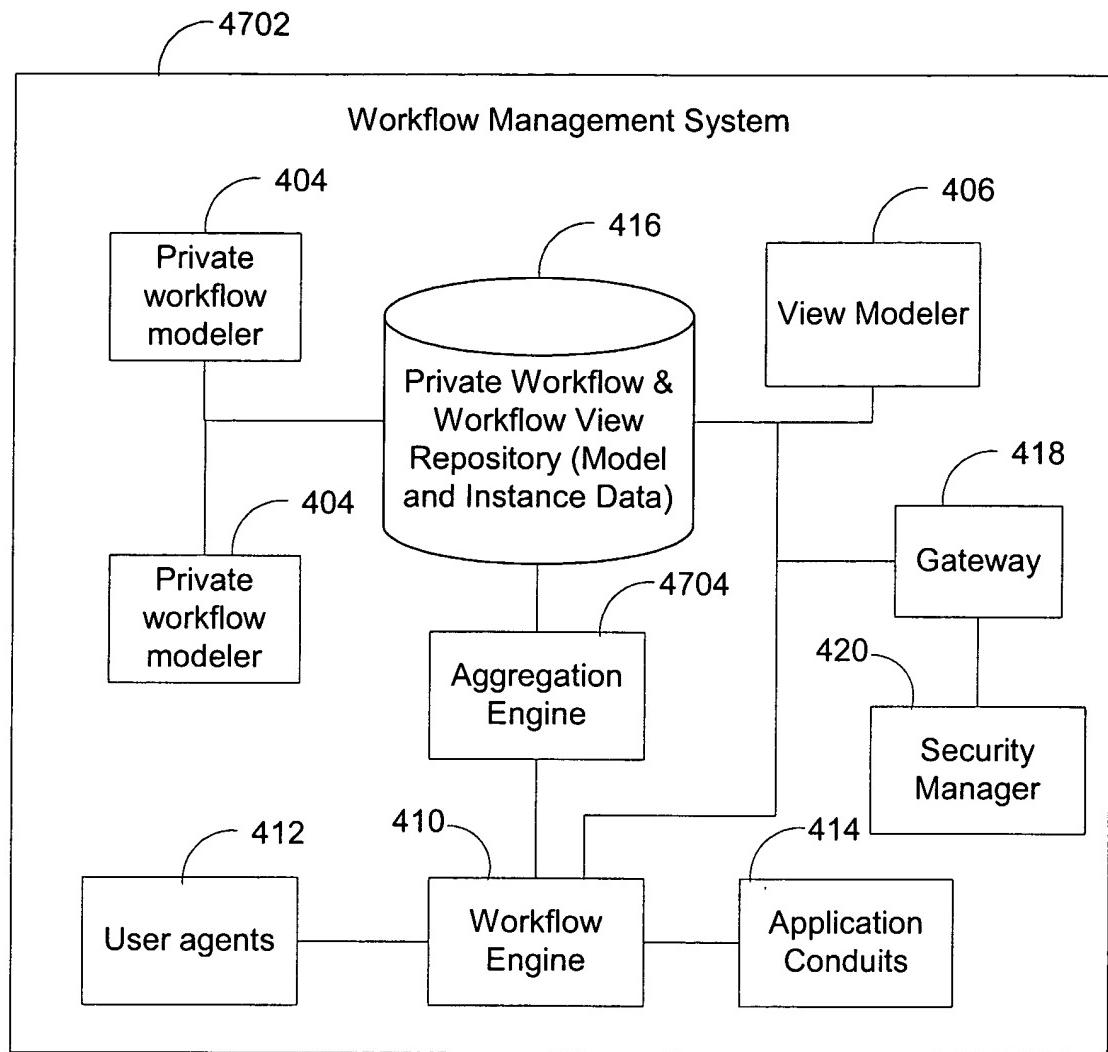


FIG. 47

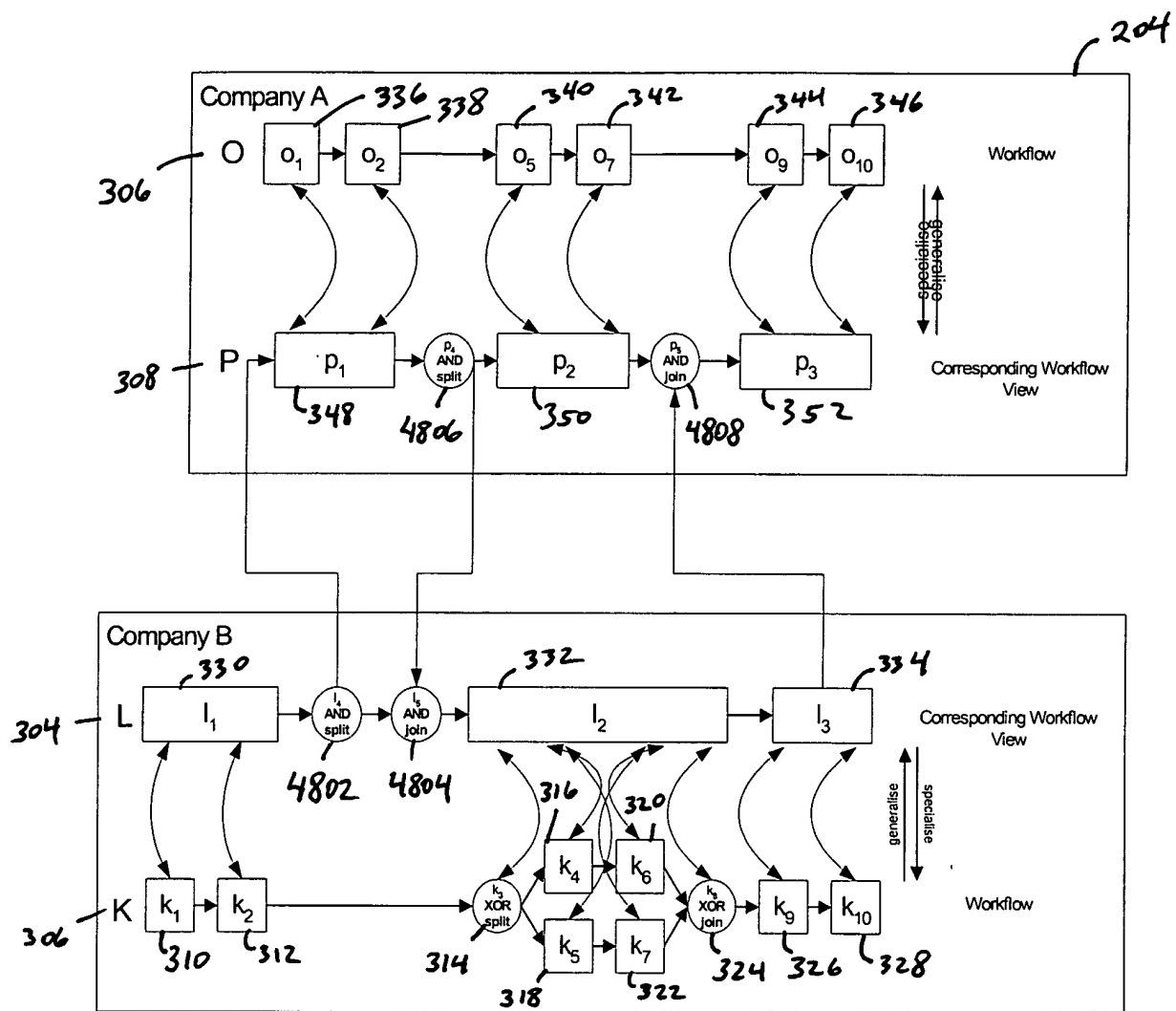
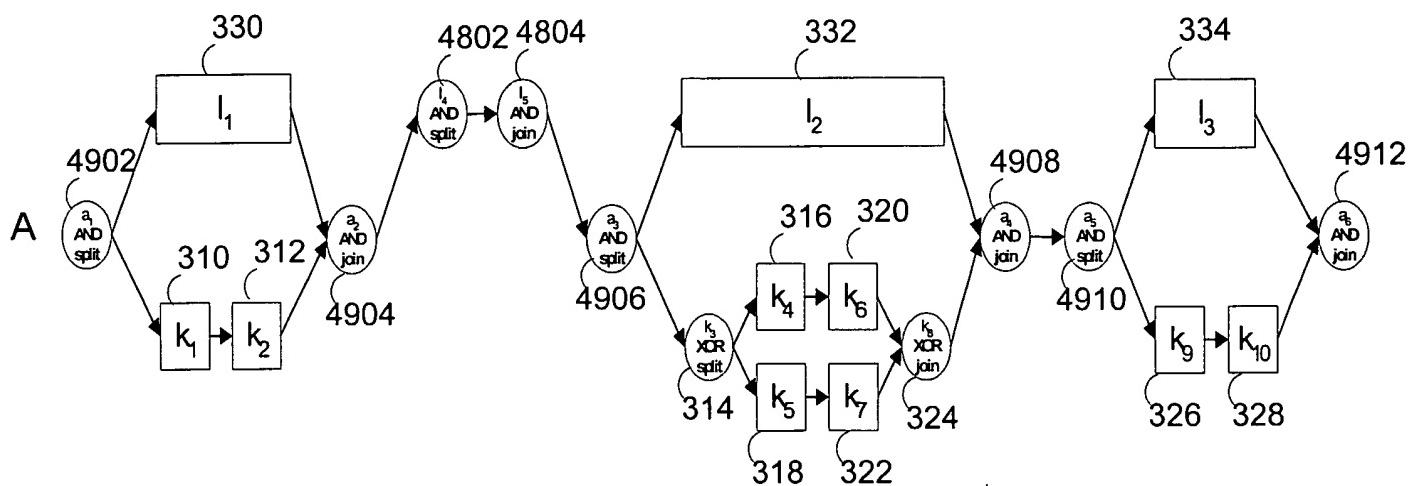
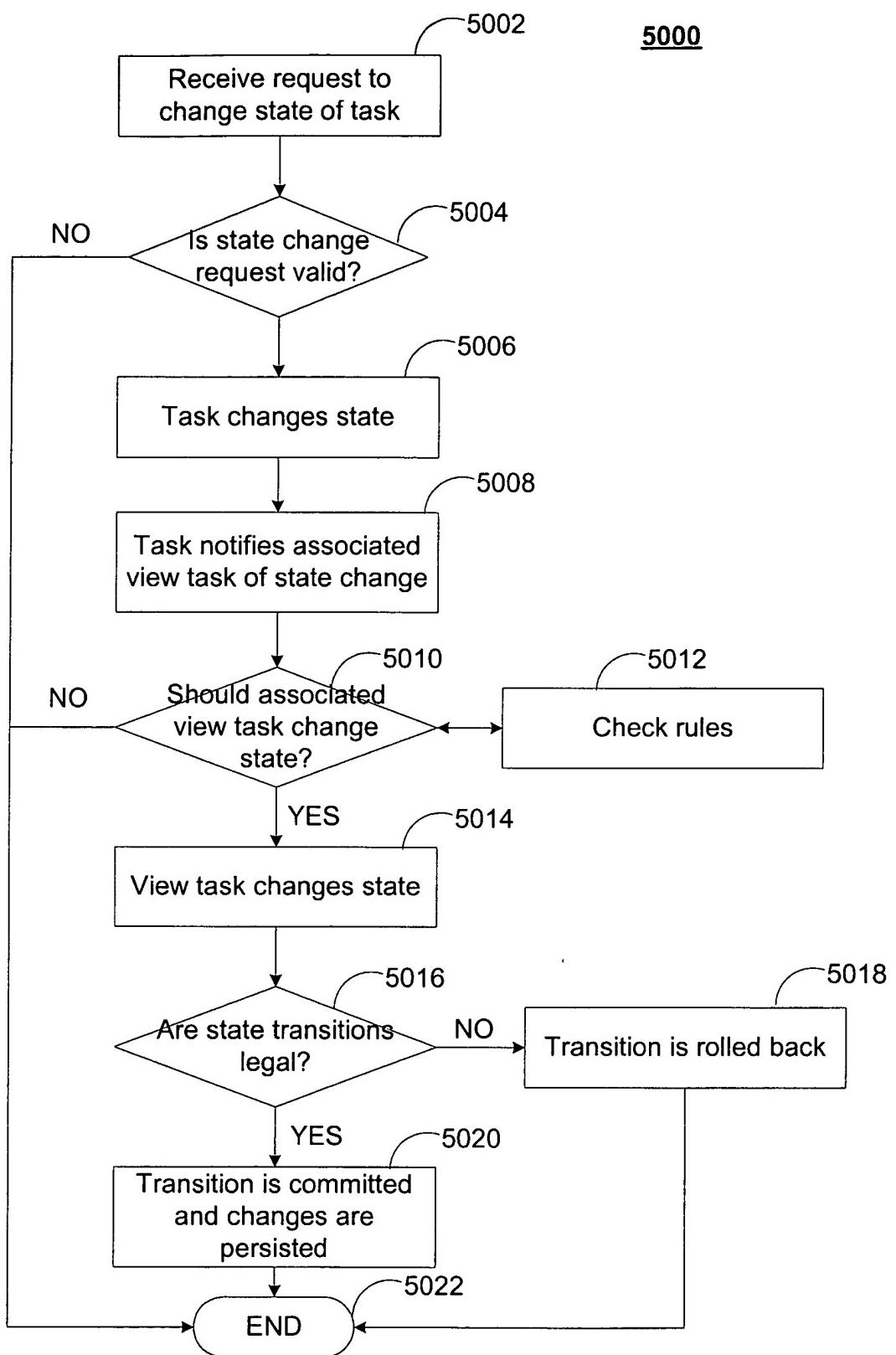


FIG. 48



**FIG. 49**

**FIG. 50**

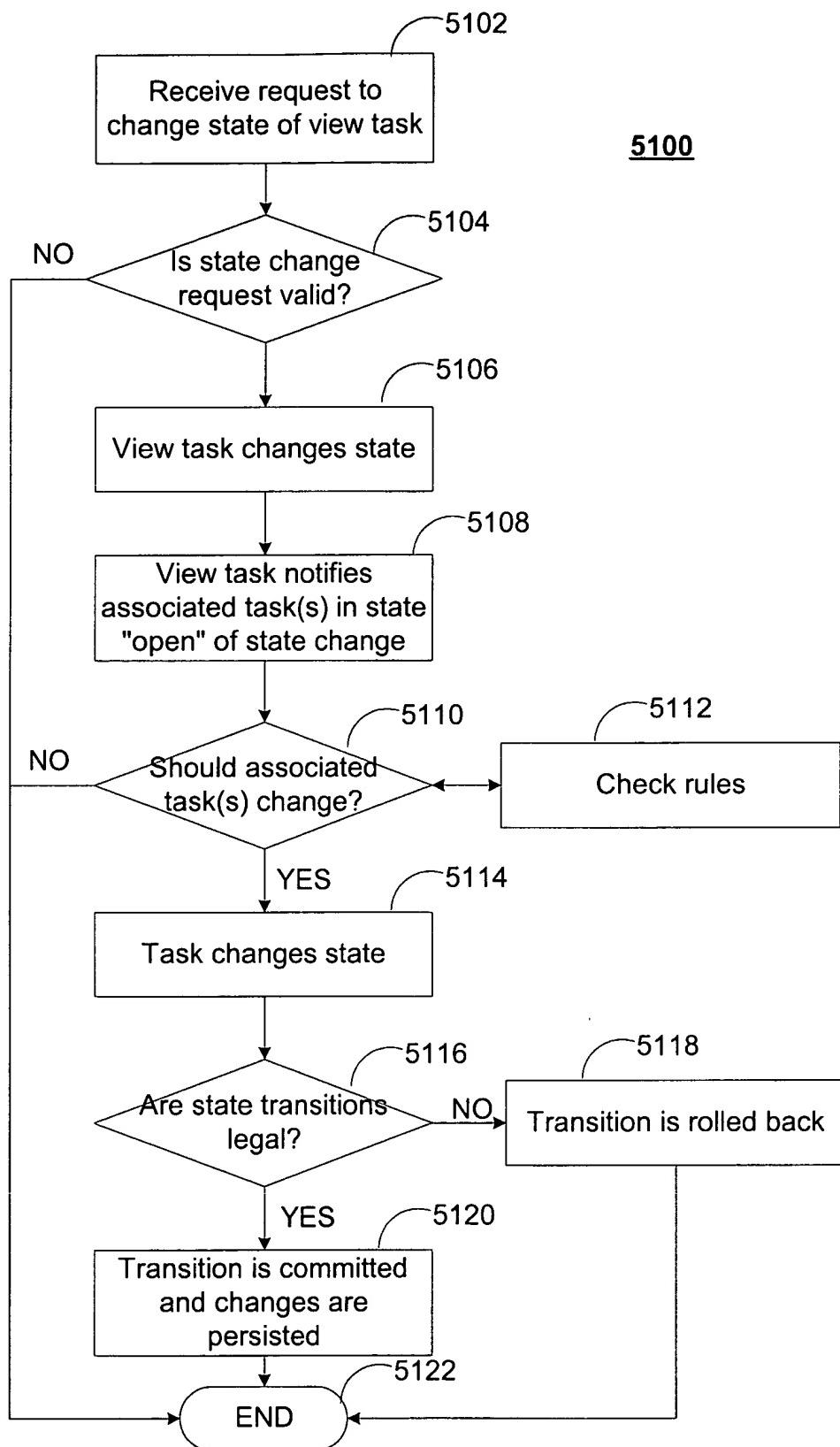
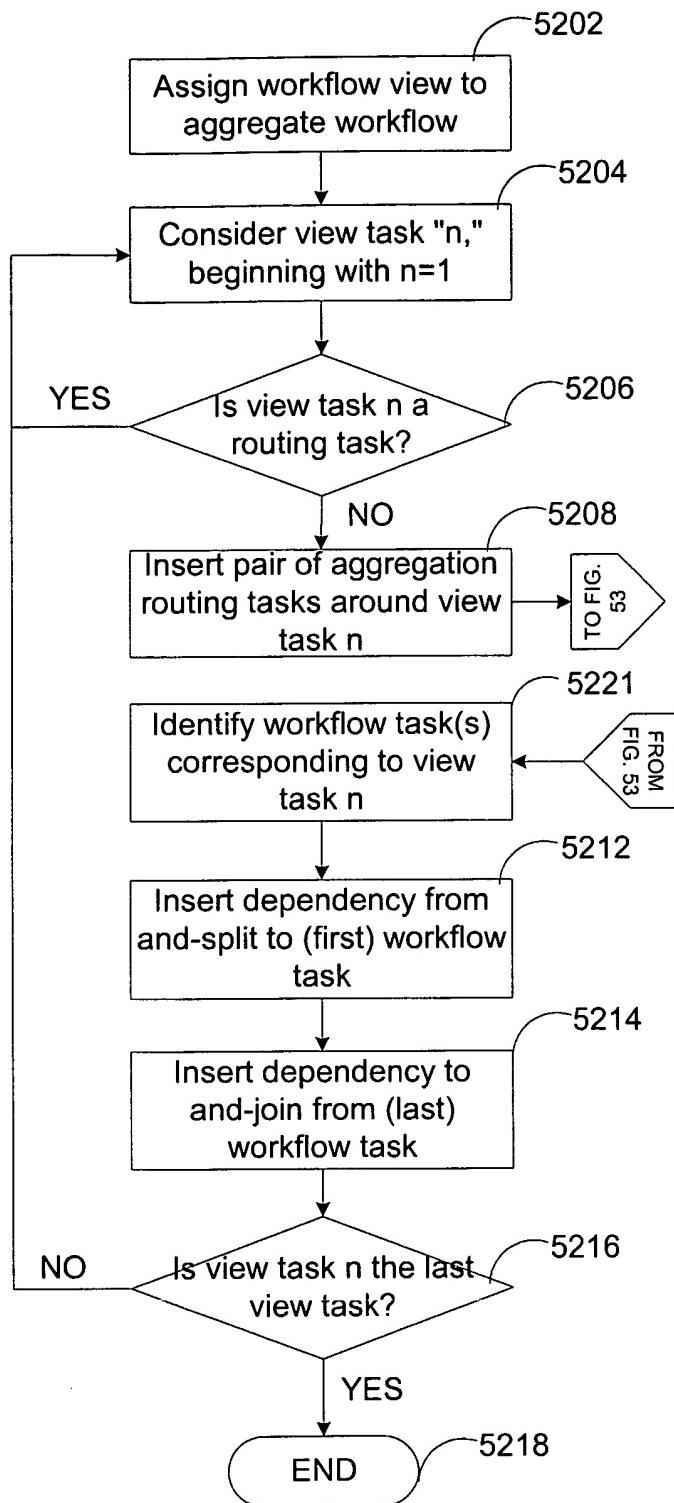
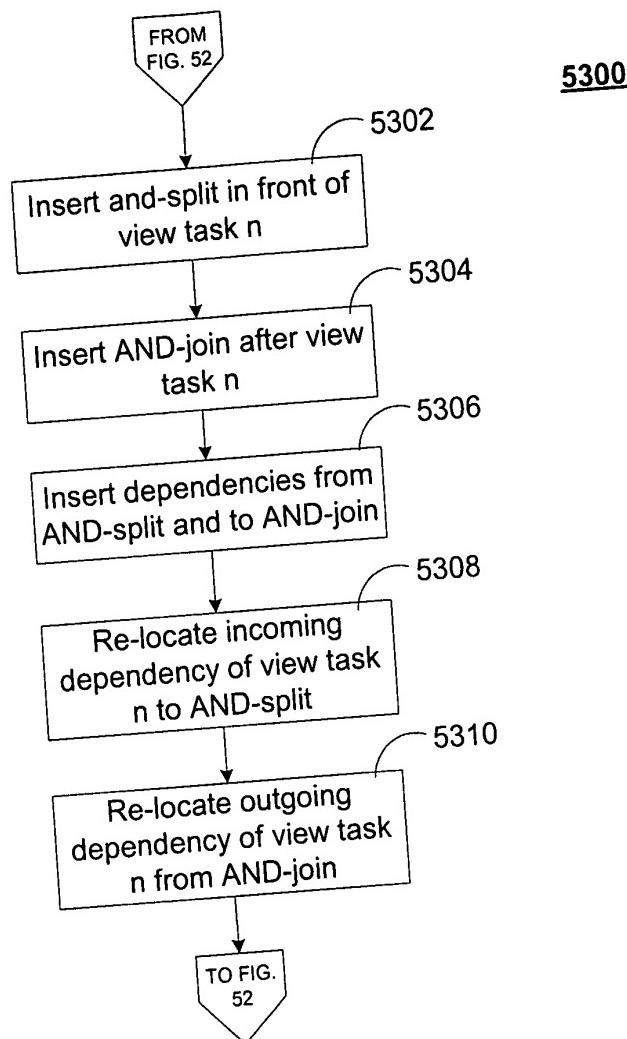


FIG. 51

5200



**FIG. 52**



**FIG. 53**